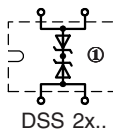
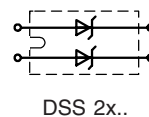
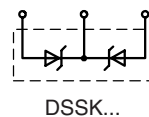
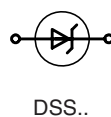
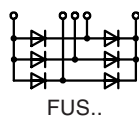
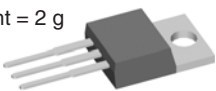
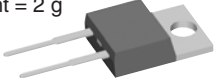
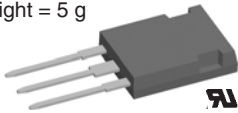
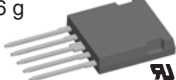


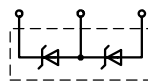
Schottky Diodes



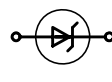
Type	V _{RRM}	I _{FAV} d = 0.5	T _C	V _F @ I _F max. T _{VJM} = 125°C	E _{AS}	I _{AR}	T _{VJM}	R _{thJC}	Fig. No.	Package style
► New	V	A	°C	V A	mJ	A	°C	K/W		Outline drawings on page 188 - 224
► DSS 40-0008D DSSK 80-0008D DSS 2x200-0008D ①	8	40 2x40 2x200	135 135 100	0.23 40 0.23 40 0.15 100	80 80 80	4 4 4	150 150 150	0.8 0.8 0.4	X014a X014a X027b	X004 Weight = 0.3 g 
DSS 20-0015B DSSK 40-0015B DSSK 70-0015B	15	20 2x20 2x35	135 135 130	0.33 20 0.32 20 0.33 35	tbd tbd 61	tbd tbd 2.5	150 150 150	1.4 1.4 1.1	X005b X014a X014a	X005a Weight = 2 g 
DSS 6-0025BS DSS 25-0025B DSSK 18-0025B DSSK 18-0025BS DSSK 38-0025B DSSK 38-0025BS DSSK 48-0025B DSSK 50-0025B DSSK 80-0025B	25	6 25 2x10 2x10 2x20 2x20 2x25 2x25 2x40	140 125 140 140 130 130 130 125 130	0.30 6 0.44 25 0.37 10 0.37 10 0.40 20 0.40 20 0.35 20 0.42 25 0.39 40	tbd tbd tbd tbd tbd tbd tbd tbd 10	tbd tbd tbd tbd tbd tbd tbd tbd 6.0	150 150 150 150 150 150 150 150 150	3.0 1.4 1.7 1.7 1.4 1.4 1.2 1.4 0.8	X004 X005b X005a X011b X005a X011b X005a X014a X014a	X005b Weight = 2 g 
DSSK 48-003B DSSK 48-003BS DSSK 70-003B DSSK 80-003B	30	2x25 2x25 2x35 2x40	130 130 125 130	0.35 20 0.35 20 0.39 35 0.39 40	tbd tbd tbd 10	tbd tbd tbd 6.0	150 150 150 150	1.2 1.2 1.1 0.8	X005a X011b X014a X014a	X007a Weight = 2 g 
DSS 6-0045AS DSS 10-0045A DSS 10-0045B DSS 16-0045A DSS 16-0045AS DSS 16-0045B DSS 25-0045A DSS 60-0045B DSSK 20-0045A DSSK 20-0045AM DSSK 20-0045B DSSK 28-0045A DSSK 28-0045B DSSK 28-0045BS DSSK 30-0045A DSSK 30-0045B DSSK 60-0045A DSSK 60-0045B DSSK 80-0045B DSS 2x61-0045A DSS 2x81-0045B DSS 2x121-0045B DSS 2x160-0045A ①	45	6 10 10 16 16 16 25 60 2x10 2x10 2x10 2x14 2x15 2x15 2x15 2x15 2x15 2x30 2x30 2x40 2x60 2x80 2x120 2x160	165 160 135 160 160 130 155 100 160 145 135 160 135 135 160 135 150 120 125 105 75 100 100	0.50 6 0.56 10 0.46 10 0.56 16 0.56 16 0.44 16 0.56 25 0.57 60 0.58 10 0.56 10 0.45 10 0.57 15 0.43 15 0.43 15 0.57 15 0.41 15 0.60 30 0.44 30 0.45 40 0.65 60 0.64 80 0.59 120 0.73 160	24 24 24 32 32 32 46 57 24 11 24 32 32 32 32 32 46 46 57 57 57 112 112	1.3 1.3 1.3 1.5 1.5 1.5 1.8 2.0 1.3 1.5 1.3 1.5 1.5 1.5 1.5 1.8 1.8 2.0 2.0 2.0 2.8 2.8	175 175 150 175 175 150 175 150 175 175 150 175 150 150 175 150 150 150 150 150 150 150 150	3.0 1.7 1.7 1.4 1.4 1.4 1.1 0.8 1.7 4.3 1.7 1.4 1.4 1.4 1.4 1.1 1.1 0.8 0.8 0.8 0.4 0.3	X004 X005b X005b X005b X011b X005b X005b X014b X005a X007a X005a X005a X011b X014a X014a X014a X014a X014a X027a X027a X027a X027a X027b	X011b Weight = 2 g 
FUS 45-0045B		45	90	0.5 typ. 15	tbd	tbd	150	3.1	X024a	X016a Weight = 5 g 
DSS 10-006A DSSK 28-006B DSSK 28-006BS DSSK 40-006B DSSK 80-006B	60	10 2x15 2x15 2x20 2x40	160 135 135 130 120	0.62 10 0.52 15 0.52 15 0.46 20 0.51 40	0.05 5 5 20 20	0.1 1 1 2 2	175 150 150 150 150	1.6 1.4 1.4 1.1 0.8	X005b X005a X011b X014a X014a	X024a Weight = 6 g 
► DSSK 80-006BR		2x40	120	0.51 40	20	2	150	0.8	X016a	X027a/b Weight = 30 g 

Data per Diode unless otherwise specified
① non isolated base plate

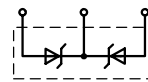
Schottky Diodes



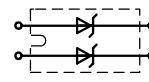
FSS..., DSSS...



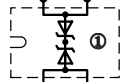
DSS..



DSSK...



DSS 2x..



DSS 2x..

Type	V _{RRM}	I _{FAV} @ T _C d = 0.5	V _F @ I _F max. T _{VJM} = 125°C	E _{AS}	I _{AR}	T _{VJM}	R _{thJC}	Fig. No.	Package style	
► New	V	A	°C	V	A	mJ	A	°C	K/W	Outline drawings on page 188 - 224
DSSK 40-008B	80	2x20	130	0.52	20	20	2	150	1.1	X014a
► DSSS 35-008AR		35	150	0.68	35	60	2	175	0.8	X016a
DSSK 70-008A		2x35	150	0.64	35	tbd	tbd	175	0.8	X014a
► DSSK 70-008AR		2x35	150	0.64	35	61	3.5	175	0.8	X016a
DSS 2x111-008A		2x110	105	0.72	100	19	1.4	150	0.4	X027a
FSS 100-008A		85	90	0.80	75	tbd	tbd	175	1.4	X024b
DSS 10-01A		10	160	0.66	10	1.3	0.8	175	1.7	X005b
DSS 10-01AS		10	160	0.66	10	1.3	0.8	175	1.7	X011b
DSS 16-01A		16	155	0.65	16	5	1.0	175	1.4	X005b
DSS 16-01AS		16	155	0.65	16	5	1.0	175	1.4	X011b
DSS 20-01AC		20	140	0.76	20	7	0.8	175	1.7	X010b
► DSSS 30-01AR		30	155	0.63	30	11	1.5	175	0.8	X016a
DSSK 16-01A		2x8	165	0.63	8	1.3	0.8	175	1.7	X005a
DSSK 16-01AS		2x8	165	0.63	8	1.3	0.8	175	1.7	X011b
DSSK 28-01A		2x15	160	0.64	15	5	1.0	175	1.4	X005a
DSSK 28-01AS		2x15	160	0.64	15	5	1.0	175	1.4	X011b
DSSK 30-01A		2x15	160	0.63	15	5	1.0	175	1.4	X014a
DSSK 50-01A		2x25	155	0.64	25	5	1.0	175	1.1	X014a
DSS 2x41-01A		2x40	110	0.70	40	5	1.0	150	1.1	X027a
DSS 2x61-01A		2x60	105	0.74	60	11	1.5	150	0.8	X027a
DSS 2x160-01A ①		2x160	95	0.81	160	11	1.5	150	0.3	X027b
DSS 6-015AS	150	6	160	0.62	6	0.05	0.1	175	3.0	X004
DSSK 20-015A		2x10	165	0.65	10	0.2	0.2	175	1.4	X005a
DSSK 50-015A		2x25	150	0.68	25	tbd	tbd	175	1.1	X014a
DSSK 60-015A		2x30	155	0.66	30	0.8	0.4	175	0.8	X014a
DSSK 60-015AR		2x30	155	0.66	30	0.8	0.4	175	0.8	X016a
DSS 2x101-015A	150	2x100	110	0.77	100	0.8	0.4	150	0.4	X027a
DSSK 10-018A	180	2x5	165	0.62	5	tbd	tbd	175	1.7	X005a
DSSK 30-018A		2x15	150	0.72	15	tbd	tbd	175	1.7	X014a
► DSSK 60-02A	200	2x30	155	0.70	30	0.8	0.4	175	0.8	X014a
► DSSK 60-02AR		2x30	155	0.70	30	0.8	0.4	175	0.8	X016a
► DSS 2x101-02A		2x100	105	0.84	100	tbd	tbd	150	0.4	X027a

X004
Weight = 0.3 g

TO-252AA

X005a
Weight = 2 g

TO-220AB

X005b
Weight = 2 g

TO-220 AC

X010b
Weight = 2 g

ISOPLUS220™

X011b
Weight = 2 g

TO-263AB

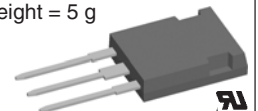
X014a
Weight = 6 g

TO-247 AD

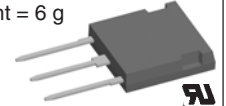
Data per Diode unless otherwise specified

① non isolated base plate

X016a **ISOPLUS247™**
Weight = 5 g



X024b **ISOPLUS i4-PAC™**
Weight = 6 g



X027a/b **SOT-227B miniBLOC**
Weight = 30 g



Schottky Gen² Diodes

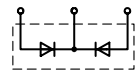
$I_{FAV} = 1 - 120 \text{ A}$



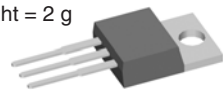
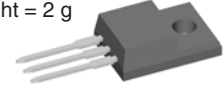
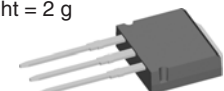
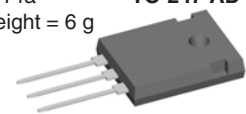
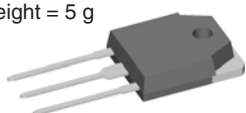
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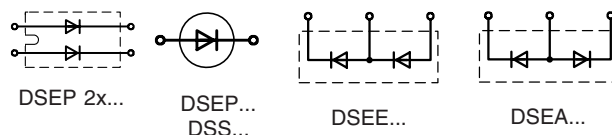


DS...I...

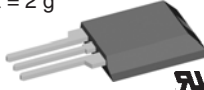


DS...C...

Type	V_{RRM}	I_{FAV} d = 0.5	T_C	V_F max.	I_F	E_{AS}	I_{AR}	T_{VJM}	R_{thJC}	Fig. No.	Package style
► New	V	A	°C	$T_{VJM} = 125^\circ\text{C}$ V	A	mJ	A	°C	K/W		Outline drawings on page 188 - 224
► DSB 20I15PA ► DSB 40C15PB	15	20 2x20	125 125	0.45 0.45	20 20	tbd	tbd	150	1.75 1.75	X005b X005a	X001 SMA (DO-214AC) Weight = 0.07 g 
► DSB 30C30PB ► DSB 60C30HB	30	2x15 2x30	130 125	0.44 0.47	15 30	tbd	tbd	150	1.75 0.95	X005a X014a	
► DSB 1I40SA ► DSB 2I40SB	40	1 2	125 125	0.40 0.42	1 2	tbd	tbd	150	$R_{thJL} 40$ $R_{thJL} 25$	X001 X002	X002 SMB (DO-214AA) Weight = 0.1 g 
► DSB 10I45PM ► DSA 20C45PB ► DSA 15I45PA ► DSA 15IM45IB ► DSB 15IM45IB ► DSA 30C45PB ► DSB 30C45PB ► DSA 30C45HB ► DSB 30C45HB ► DSA 60C45PB ► DSB 60C45PB ► DSA 60C45HB ► DSB 60C45HB ► DSA 80C45HB ► DSB 80C45HB	45	10 2x10 15 15 15 2x15 2x15 2x15 2x15 2x30 2x30 2x30 2x30 2x40 2x40	115 155 155 155 125 155 125 155 125 150 125 150 125 150 125	0.53 0.62 0.63 0.63 0.55 0.63 0.55 0.62 0.54 0.67 0.60 0.66 0.58 0.67 0.58	10 10 15 15 15 15 15 15 15 30 30 30 30 40 40	tbd	tbd	150 175 175 175 150 175 150 175 150 175 150 175 150 175 150	4.50 2.60 1.75 1.75 1.75 1.75 1.75 1.75 1.75 0.85 0.85 0.95 0.95 0.70 0.70	X007b X005a X005b X008 X008 X005a X005a X014a X014a X005a X005a X014a X014a X014a X014a	X005a TO-220AB Weight = 2 g 
► DSB 1I60SA ► DSB 2I60SB ► DSA 20C60PN ► DSB 20C60PN ► DSA 30C60PB ► DSB 30C60PB ► DSA 60C60PB ► DSB 60C60PB ► DSA 60C60HB ► DSB 60C60HB	60	1 2 2x10 2x10 2x15 2x15 2x30 2x30 2x30 2x30	125 125 140 115 150 125 150 125 150 125	0.50 0.52 0.68 0.63 0.70 0.69 0.74 0.69 0.72 0.67	1 2 10 10 15 15 30 30 30 30	tbd	tbd	150 150 175 150 175 150 175 150 175 150	$R_{thJL} 40$ $R_{thJL} 25$ 4.50 4.50 1.75 1.75 0.85 0.85 0.95 0.95	X001 X002 X007a X007a X005a X005a X005a X005a X014a X014a	X007a TO-220ABFP Weight = 2 g 
► DSA1I100SA ► DSA2I100SB ► DSA20C100PB ► DSA20C100PN ► DSA30C100PB ► DSA30C100PN ► DSA30C100QB ► DSA50C100HB ► DSA50C100QB ► DSA60C100PB ► DSA70C100HB ► DSA80C100PB	100	1 2 2x10 2x10 2x15 2x15 2x15 2x25 2x25 2x30 2x35 2x40	125 125 150 140 150 120 150 155 155 150 150 150	0.65 0.65 0.72 0.72 0.73 0.73 0.72 0.72 0.72 0.78 0.74 0.73	1 2 10 10 15 15 15 25 25 30 35 40	tbd	tbd	175	$R_{thJL} 40$ $R_{thJL} 25$ 2.60 4.50 1.75 4.20 1.75 0.95 0.95 0.85 0.70 0.60	X001 X002 X005a X007a X005a X007a X017a X014a X017a X005a X014a X005a	X008 TO-262 (i2-Pac) Weight = 2 g 
► DSA20C150PB ► DSA20C150PN ► DSA30C150PB ► DSA50C150HB ► DSA70C150HB ► DSA120C150QB	150	2x10 2x10 2x15 2x25 2x35 2x60	150 140 150 155 150 150	0.74 0.74 0.75 0.74 0.74 0.80	10 10 15 25 35 60	tbd	tbd	175	2.60 4.50 1.75 0.95 0.70 0.40	X005a X007a X005a X014a X014a X017a	X014a TO-247 AD Weight = 6 g 
► DSA90C200HB	200	2x45	150	0.88	45	tbd	tbd	175	0.55	X014a	X017a TO-3P Weight = 5 g 



Series connected diodes for high switching frequencies;
packages isolated (2500 V_{RMS})

Type	V _{RRM} V	I _{FAV} @ T _C d = 0.5 A °C	V _F @ T _{VJ} max. I _F = I _{FAV} V °C	t _{rr} typ. T _{VJ} = 25°C ns	I _{RM} typ. T _{VJ} = 100°C A	@ -di/dt A/μs	T _{VJM} °C	R _{thJC} K/W	Fig. No.	Package style Outline drawings on page 188 - 224
DSEP 9-06CR DSS 17-06CR * DSEP 30-06CR	600	9 140 17 95 30 140	2.9 150 2.71 125 2.25 150	15 45 15	3.5 4.0 2.5	100 100 100	175 175 175	1.0 1.4 0.6	X016b	 X010a ISOPLUS220AB™ Weight = 2 g
DSEP 15-12CR DSEP 30-12CR	1200	15 130 30 115	2.67 150 3.1 150	20 20	4.0 4.0	100 100	175 175	1.0 0.6		
DSEP 2x35-06 C	600	35 100	1.97 125	20	4.5	100	150	0.6	X027a	
DSEP 2x25-12 C	1200	25 90	3.0 125	20	3.0	100	150	0.6		

* series connected Schottky Diodes

X014a **TO-247 AD**
Weight = 6 g

X016b **ISOPLUS247™**
Weight = 5 g

X024b **ISOPLUS i4-PAC™**
Weight = 6 g

X027a **SOT-227B miniBLOC**
Weight = 30 g

Dual Ultrafast Diodes

Series connected diodes for high switching frequencies with middle connection; packages isolated (2500 V_{RMS})

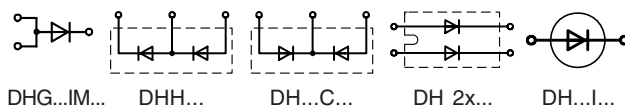
Type	V _{RRM} V	I _{FAV} @ T _C d = 0.5 A °C	V _{Fmax} @ T _{VJ} I _F = I _{FAV} V °C	t _{rr} typ. T _J = 25°C ns	I _{RM} typ. @ -di/dt T _J = 100°C A A/μs	T _{VJM} °C	R _{thJC} K/W	Fig. No.
► New								
DSEE 6-06CC DSEE 8-06CC DSEE 15-06CC DSEE 29-06CC	2x300	6 150 10 130 15 115 30 115	1.35 125 1.30 125 1.25 125 1.01 125	20 30 30 30	2 100 2 100 2 100 4.5 100	175 175 175 175	3.0 2.75 1.6 0.9	X010a
DSEE 8-08CC	2x400	10 130	1.12 125	30	2 100	175	2.75	
DSEE 15-12CC DSEE 29-12CC	2x600	15 100 30 90	1.50 125 1.75 125	35 30	4 100 4 100	175 175	1.6 0.9	
DSEE 30-12A ①		30 90	1.78 125	30	4 100	175	0.9	X014a
DSEE 55-24N1F	2x1200	55 90	1.50 typ. 125	220 / 125°C	79 / 125°C750	150	0.63	X024b

① Non isolated base plate

Common anode connected

DSEA 16-06AC DSEA 16-06BC DSEA 29-06AC DSEA 59-06BC	600	2x8 120 2x8 110 2x15 130 2x30 105	1.42 150 1.65 150 1.34 150 1.56 150	35 30 35 30	3.5 100 1.4 100 4 100 4 100	175 175 175 175	3 2.5 2.0 1.1	X010a
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SONIC-FRD™ Diodes



$I_{FAV} = 10 - 120 \text{ A}$

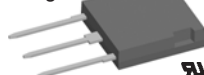
- ultrasoft and fast recovery
- very low temperature dependence

Type	V_{RRM}	I_{FAV} d = 0.5	T_C	@ I_{FSM}	V_F 10 ms	@ I_F max.	t_{rr}	I_{RM} typ.	-di/dt typ.	T_{VJM}	R_{thJC}	Fig.	Package style No. Outline drawings on page 188 - 224
► New	V	A	°C	45°C A	$T_{VJM} = 150^\circ\text{C}$ V	A	$T_{VJ} = 25^\circ\text{C}$ ns	A	A/ μs	°C	K/W		
► DHG 10I600PA	600	10	95	100	2.20	10	35	4	200	150	1.80	X005b	X005b Weight = 2 g X007a Weight = 2 g X007b Weight = 2 g X014a Weight = 6 g
► DHG 10I600PM		10	30	100	2.20	10		4	200		4.00	X007b	
► DHG 20C600QB		2x10	100	100	2.20	10		4	200		1.80	X017a	
► DHG 30I600PA		30	95	200	2.22	30		12	600		0.60	X005b	
► DHF 30IM600PN		15	35	200	2.22	30		12	600		3.50	X007a	
► DHG 30I600HA		30	85	200	2.20	30		12	600		0.70	X014b	
► DHF 30IM600QB		30	85	200	2.20	30		12	600		0.70	X017a	
► DHG 60C600HB		2x30	85	200	2.20	30		12	600		0.70	X014a	
► DHG 30I1200HA	1200	30	85	180	2.40	30	75	25	1000	150	0.70	X014b	
► DH 20-18A	1800	20	80	150	2.94	20	150	16	200	150	0.90	X014b	
► DH 40-18A		40	85	350	2.69	40		33	400		0.45	X014b	
► DH 60-18A		60	80	650	2.65	60		50	600		0.30	X014b	
► DHH 55-36N1F		60	80	650	2.65	60		50	600		0.30	X024b	
► DH 2x61-18A		60	25	650	2.61	60		50	600		0.60	X027a	

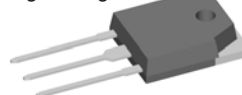
X027a SOT-227B
Weight = 30 g miniBLOC



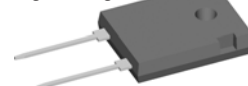
X024b ISOPLUS i4-PAC™
Weight = 6 g



X017a TO-3P
Weight = 5 g



X014b TO-247 AD
Weight = 6 g

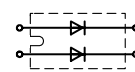
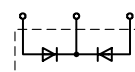


HiPerFRED™ Diodes

$I_{FAV} = 8 - 2 \times 120 \text{ A}$



Type	V _{RRM}	I _{FAV} @ T _C d = 0.5		I _{FSM} 10 ms	V _F @ I _F max. T _{VJM} = 150°C		t _{rr} typ. T _{VJ} = 25°C	I _{RM} @ -di/dt typ. T _{VJ} = 100°C		T _{VJM}	R _{thJC}	Fig. No.	Package style	
► New	V	A	°C	A	V	A	ns	A	A/μs	°C	K/W		Outline drawings on page 188 - 224	
DSEP 8-02A	200	8	150	80	0.94	8	25	4.1	100	175	2.5	X005b	X004 Weight = 0.3 g 	
DSEP 8-03A	300	10	130	60	1.29	10	30	2.4	100	175	2.5	X005b	X005b Weight = 2 g 	
DSEP 8-03AS		8	152	60	1.13	8	30	2.4	100	175	2.5	X004		
DSEP 15-03A		15	135	140	1.21	15	30	2.7	100	175	1.6	X005b		
DSEP 29-03A		30	145	300	0.93	30	30	7.0	100	175	0.9	X005b		
DSEP 30-03A		30	140	300	1.09	30	25	3.5	100	175	0.9	X014b		
► DSEP 30-03AS		30	135	300	1.02	30	35	3.0	200	175	0.85	X011b		
► DSEP 40-03AS		40	120	300	1.11	40	35	3.5	200	175	0.85	X011b		
DSEP 60-03A		60	110	700	1.25	60	30	4.8	100	175	0.65	X014b	X011b Weight = 2 g 	
DSEP 30-04A	400	30	140	280	1.11	30	30	6.8	100	175	0.9	X014b	X014b Weight = 6 g  X016b Weight = 5 g  X019 Weight = 5 g 	
DSEP 60-04A		60	120	600	1.01	60	30	7.5	100	175	0.65	X014b		
DSEP 6-06AS	600	6	152	40	1.33	6	20	4.4	100	175	2.8	X004		
DSEP 8-06A		10	135	50	1.42	10	35	4.4	100	175	2.5	X005b		
DSEP 8-06B		10	125	50	1.66	10	30	2.4	100	175	2.5	X005b		
DSEP 15-06A		15	140	110	1.35	15	35	4.9	100	175	1.6	X005b		
DSEP 15-06B		15	130	110	1.55	15	25	2.6	100	175	1.6	X005b		
DSEP 29-06A		30	135	250	1.26	30	35	6.0	100	175	0.9	X005b		
DSEP 29-06AS		30	135	250	1.26	30	35	6.0	100	175	0.9	X011b		
DSEP 29-06B		30	125	200	1.58	30	30	4.0	100	175	0.9	X005b		
DSEP 30-06A		30	135	250	1.25	30	35	6.0	100	175	0.9	X014b		
DSEP 30-06B		30	125	250	1.56	30	30	4.0	100	175	0.9	X014b		
DSEP 30-06BR			30	115	250	1.56	30	30	4.0	100	175	1.1		X016b
DSEP 60-06A			60	110	600	1.39	60	35	8.3	100	175	0.65		X014b
DSEP 60-06AT			60	110	600	1.39	60	35	8.3	100	175	0.65		X019



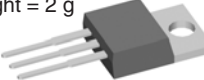
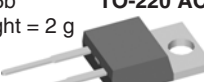
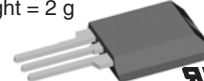
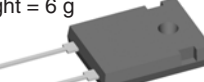
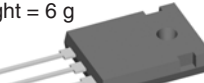
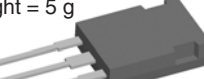
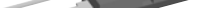
$$I_{FAV} = 8 - 2 \times 120 \text{ A}$$

DSEP...

DSEC...

DSEP 2x....

DSEC

Type	V _{RRM}	I _{FAV} @ T _C d = 0.5		I _{FSM} 10 ms 45°C	V _F @ I _F max. T _{VJM} = 150°C	t _{rr} typ. T _{VJ} = 25°C	I _{RM} @ -di/dt typ. T _{VJ} = 100°C		T _{VJM}	R _{thJC}	Fig. No.	Package style	
► New	V	A	°C	A	V	A	A	A/μs	°C	K/W		Outline drawings on page 188 - 224	
DSEP 8-12A	1200	10	115	40	1.96	10	40	4.0	100	175	2.5	X005b	X005a Weight = 2 g 
DSEP 12-12A		15	125	90	1.79	15	40	4.5	100	175	1.6	X005b	
► DSEP 12-12B		15	125	90	2.20	15	35	3.7	100	175	1.6	X005b	
DSEP 29-12A		30	115	200	1.81	30	40	8.5	100	175	0.9	X005b	
DSEP 30-12A		30	115	200	1.79	30	40	8.5	100	175	0.9	X014b	
DSEP 30-12AR		30	110	200	1.79	30	40	8.5	100	175	1.1	X016b	
DSEP 60-12A		60	90	500	1.74	60	40	8.5	100	175	0.65	X014b	
DSEP 60-12AR		60	85	500	1.74	60	40	8.5	100	175	0.65	X016b	X005b Weight = 2 g 
DSEC 16-02A	200	2x8	150	80	0.94	8	25	3.5	100	175	2.5	X005a	X010a Weight = 2 g 
DSEC 29-02A		2x15	150	140	0.86	15	25	3.5	100	175	1.6	X005a	
DSEC 29-02AS		2x15	150	140	0.86	15	25	3.5	100	175	1.6	X011b	
DSEC 30-02A		2x15	150	140	0.85	15	25	3.5	100	175	1.6	X014a	
DSEC 60-02A		2x30	145	325	0.95	30	25	4.0	100	175	0.9	X014a	
DSEC 60-02AQ		2x30	145	325	0.95	30	25	4.0	100	175	0.9	X017a	
DSEC 30-03A	300	2x15	140	110	1.20	15	30	2.0	100	175	1.6	X014a	X011b Weight = 2 g 
DSEC 60-03A		2x30	145	300	0.91	30	30	4.5	100	175	0.9	X014a	
DSEC 59-03AQ		2x30	125	300	1.00	30	30	3.0	100	175	1.4	X017a	
DSEC 60-03AR		2x30	135	300	0.91	30	30	4.5	100	175	1.1	X016a	
DSEC 16-04AS	400	2x10	140	60	1.12	10	30	2.0	100	175	2.5	X011b	X014b Weight = 6 g 
DSEC 30-04A		2x15	145	tbd	1.06	15	30	5.0	100	175	1.6	X014a	
DSEC 60-04A		2x30	140	tbd	1.09	30	30	5.5	100	175	0.9	X014a	
DSEC 16-06A	600	2x10	135	50	1.42	10	35	3.5	100	175	2.5	X005a	X014a Weight = 6 g 
DSEC 16-06AC		2x8	85	50	1.20	10	35	3.5	100	175	3.0	X010a	
DSEC 16-06BC		2x8	110	50	1.76	8	30	1.4	100	175	2.5	X010a	
DSEC 29-06AC		2x15	140	110	1.34	15	35	4.0	100	175	1.6	X010a	
DSEC 30-06A		2x15	140	110	1.34	15	35	4.0	100	175	1.6	X014a	
DSEC 30-06B		2x15	125	110	1.59	15	25	4.0	100	175	1.6	X014a	
DSEC 59-06BC		2x30	105	200	1.56	30	30	4.0	100	175	1.1	X010a	
DSEC 60-06A		2x30	135	250	1.25	30	35	6.0	100	175	0.9	X014a	
DSEC 60-06B		2x30	125	250	1.56	30	30	4.0	100	175	0.9	X014a	X016a 
DSEC 16-12A	1200	2x10	115	40	1.96	10	40	4.0	100	175	2.5	X005a	X016a Weight = 5 g 
DSEC 30-12A		2x15	125	90	1.78	15	40	4.5	100	175	1.6	X014a	
DSEC 60-12A		2x30	115	200	1.78	30	40	5.5	100	175	0.9	X014a	
DSEC 120-12AK		2x60	90	500	1.74	60	40	7.0	100	175	0.65	X020	
DSEP 2x31-03A	300	2x30	110	300	0.96/125°C	30	30	4.5	100	150	1.15	X027a	X016b Weight = 5 g 
DSEP 2x61-03A		2x60	75	600	1.26	60	30	4.0	100	150	0.85		
DSEP 2x91-03A		2x90	65	1000	1.30	90	30	4.5	100	150	0.6		
DSEP 2x31-04A	400	2x30	105	280	1.15	30	30	5.5	100	150	1.15		X017a Weight = 5 g 
DSEP 2x31-06A	600	2x30	95	250	1.30	30	35	6.0	100	150	1.15		
DSEP 2x31-06B		2x30	85	250	1.73	30	30	4.0	100	150	1.15		
DSEP 2x61-06A		2x60	65	600	1.48	60	35	6.5	100	150	0.85		
DSEP 2x91-06A		2x90	55	1000	1.52	90	35	6.0	100	150	0.6		
DSEP 2x31-12A	1200	2x30	70	200	1.96	30	40	8.5	100	150	1.15		X020 Weight = 10 g 
DSEP 2x60-12A		2x60	80	800	1.70	60	40	8.0	100	150	0.6		
DSEP 2x61-12A		2x60	80	800	1.70	60	40	8.0	100	150	0.6		
DSEP 2x101-04A	400	2x101	60	1000	1.24	125	30	5.5	100	150	0.6		
DSEC 240-04A ①	400	2x120	115	2000	1.07	120	30	5.5	100	150	0.2	X027b	
DSEC 240-06A ①	600	2x120	105	2000	1.39	120	35	6.0	100	150	0.2		

① Non isolated base plate

X027a/b SOT-227B
Weight = 30 g miniBLOC


HiPerFRED² Diodes



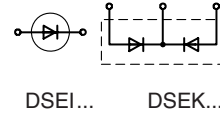
$I_{FAV} = 10 - 120 \text{ A}$

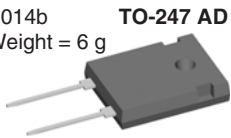
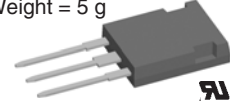
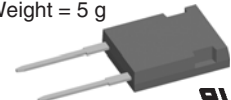
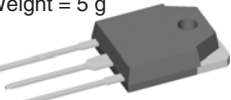
Type	V _{RRM}	I _{FAV} @ T _C d = 0.5		I _{FSM} 10 ms 45°C	V _F @ I _F max. T _{VJM} = 150°C	t _{rr} typ. T _{VJ} = 25°C	I _{RM} @ -di/dt typ. T _{VJ} = 25°C		T _{VJM}	R _{thJC}	Fig. No.	Package style	
► New	V	A	°C	A	V	A	A	A/μs	°C	K/W		Outline drawings on page 188 - 224	
► DPG 10I200PA	200	10	145	100	0.98	10	35	3	200	175	2.30	X005b	X004 TO-252AA Weight = 0.3 g
► DPG 10I200PM		10	125	100	0.98	10					4.40	X007b	
► DPG 20C200PB		2x10	145	100	0.98	10					2.30	X005a	
► DPG 20C200PN		2x10	125	100	0.98	10					4.40	X007a	
► DPG 15I200PA		15	140	150	1.00	15					1.70	X005b	
► DPG 30C200PB		2x15	140	150	1.00	15					1.70	X005a	
► DPG 30C200HB		2x15	140	150	1.00	15					1.70	X014a	
► DPG 60C200QB		2x30	135	300	1.06	30					0.95	X017a	
► DPG 10I300PA	300	10	140	100	0.98	10	35	3	200	175	2.30	X005b	X005a TO-220AB Weight = 2 g
► DPG 20C300PB		2x10	145	100	0.98	10					2.30	X005a	
► DPG 20C300PN		2x10	125	100	0.98	10					4.40	X007a	
► DPG 15I300PA		15	140	150	1.00	15					1.70	X005b	
► DPG 30C300PB		2x15	140	150	1.00	15					1.70	X005a	
► DPG 30C300PC		2x15	140	150	1.00	15					1.70	X011b	
► DPG 30C300HB		2x15	140	150	1.00	15					1.70	X014a	
► DPG 60C300HB		2x30	135	300	1.06	30					0.95	X014a	
► DPG 60C300QB		2x30	135	300	1.06	30					0.95	X017a	
► DPG 60IM300PC		60	135	550	1.10	60					0.45	X011b	
► DPG 120C300QB		2x60	125	550	1.10	60					0.55	X017a	
► DPG 10I400PA	400	10	145	100	1.04	10	45	4	200	175	2.30	X005b	X007b TO-220ACFP Weight = 2 g
► DPG 10I400PM		10	120	100	1.04	10					4.40	X007b	
► DPG 20C400PB		2x10	145	100	1.04	10					2.30	X005a	
► DPG 30C400HB		2x15	140	150	1.07	15					1.70	X014a	
► DPG 60C400QB		2x30	135	300	1.13	30					0.95	X017a	
► DPG 60I400HA		60	120	600	1.22	60					0.55	X014b	
► DPG 60IM400QB		60	120	600	1.22	60					0.55	X017a	
												X011b TO-263AB	

FRED Diodes

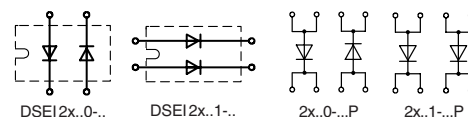
Fast Recovery Epitaxial Diodes (FRED)

$I_{FAV} = 6 - 120 \text{ A}$

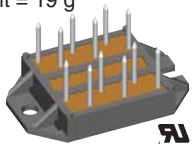
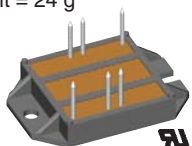


Type	V _{RRM}	I _{FAV} @ T _C d = 0.5	I _{FRMS}	I _{FSM} 10 ms 45°C	V _F @ I _F max. T _{VJ} = 150°C	t _{rr} typ. T _{VJ} = 25°C	I _{RM} @ -di/dt typ. T _{VJ} = 100°C	R _{thJC}	Fig. No.	
T _{VJM} = 150°C ► New	V	A °C	A	A	V _{VJ} = 150°C A	ns	A/μs	K/W		
DSEI 6-06AS	600	6 125	16	65	1.3 8	35	2.5 64	3.0	X004	X014b TO-247 AD Weight = 6 g 
DSEI 8-06A	600	8 115	16	100	1.3 8	35	2.5 64	2.5	X005b	X016a ISOPLUS247™ Weight = 5 g 
DSEI 8-06AS	600	8 115	16	100	1.3 8	35	2.5 64	2.5	X011b	
DSEI 12-06A	600	14 100	25	100	1.5 16	35	4 100	2.0	X005b	X016b ISOPLUS247™ Weight = 5 g 
DSEI 12-10A	1000	12 100	25	75	2.1 12	50	6.5 100	1.6		
DSEI 12-12A	1200	11 100	25	75	2.2 12	50	6.5 100	1.6		X017a TO-3P Weight = 5 g 
DSEI 20-12A	1200	17 85	70	130	1.87 12	40	7 100	1.6		
DSEI 19-06AS	600	20 65	25	100	1.5 16	35	4 100	2.0	X011b	X019 Weight = 5 g 
DSEI 36-06AS	600	37 85	70	300	1.4 37	35	10 240	1.0		
DSEI 30-06A	600	37 85	70	300	1.4 37	35	10 240	1.0	X014b	X019 TO-268 AA Weight = 5 g
DSEI 30-10A	1000	30 85	70	200	2.0 36	35	16 240	0.9		
DSEI 30-10AR	1000	30 85	70	200	2.0 36	35	16 240	0.9	X016b	
DSEI 30-12A	1200	26 85	70	200	2.2 30	40	16 240	0.9	X014b	
DSEI 60-02A	200	69 85	98	600	0.88 60	35	8 200	0.75	X014b	
DSEI 60-06A	600	60 70	100	550	1.5 70	35	19 480	0.75	X019	
DSEI 60-06AT	600	60 70	100	550	1.5 70	35	19 480	0.75	X019	
DSEI 60-10A	1000	60 60	100	500	1.8 60	35	32 480	0.66	X014b	
DSEI 60-12A	1200	52 60	100	500	2.0 60	40	32 480	0.66	X014b	
DSEI 120-06A	600	126 70	100	600	1.12 70	35	17 200	0.35	X014b	
DSEI 120-12A	1200	109 60	100	600	1.55 70	40	25 200	0.35	X014b	
DSEK 60-02A	200	2x34 115	50	325	0.85 30	35	4 100	1.0	X014a	
DSEK 60-02AR	200	2x34 115	50	325	0.85 30	35	4 100	1.0	X016a	
DSEK 60-06A	600	2x30 85	50	300	1.4 37	35	10 240	1.0	X014a	
DSEK 60-12A	1200	2x26 85	50	200	2.2 30	40	16 240	0.9	X014a	

Fast Recovery Epitaxial Diodes (FRED)

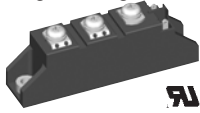


$$I_{FAV} = 2x30 - 2x160 \text{ A}$$

Type T _{VJM} = 150°C ► New	V _{RRM} V	I _{FAV} @ T _C d = 0.5 A °C	I _{FRMS} 45°C A	I _{FSM} 10 ms A	V _F @ I _F max. T _{VJ} = 150°C V A	t _{rr} typ. T _{VJ} = 25°C ns	I _{RM} @ -di/dt typ. T _{VJ} = 100°C A A/μs	R _{thJC} K/W	Fig. No.	Package style Outline drawings on page 188 - 224
DSEI 2x30-06P DSEI 2x30-10P DSEI 2x30-12P	600 1000 1200	2x30 85 2x30 50 2x28 50	70 70 70	300 200 200	1.4 30 2.0 30 2.2 30	35 35 40	10 240 16 240 16 240	1.25 1.25 1.25	X101	X027a SOT-227B Weight = 30 g miniBLOC
DSEI 2x30-04C DSEI 2x30-06C DSEI 2x30-10B DSEI 2x30-12B	400 600 1000 1200	2x30 85 2x30 85 2x30 50 2x28 50	70 70 70 70	300 300 200 200	1.4 30 1.4 30 2.0 30 2.2 30	35 35 35 40	10 240 10 240 16 240 16 240	1.25 1.25 1.25 1.25	X027a	
DSEI 2x31-06P DSEI 2x31-10P DSEI 2x31-12P	600 1000 1200	2x30 85 2x30 50 2x28 50	70 70 70	300 200 200	1.4 30 2.0 30 2.2 30	35 35 40	10 240 16 240 16 240	1.25 1.25 1.25	X101	X101 ECO-PAC 1 Weight = 19 g
DSEI 2x31-04C DSEI 2x31-06C DSEI 2x31-10B DSEI 2x31-12B	400 600 1000 1200	2x30 85 2x30 85 2x30 50 2x28 50	70 70 70 70	300 300 200 200	1.4 30 1.4 30 2.0 30 2.2 30	35 35 35 40	10 240 10 240 16 240 16 240	1.25 1.25 1.25 1.25	X027a	
DSEI 2x61-02P DSEI 2x61-06P DSEI 2x61-10P DSEI 2x61-12P	200 600 1000 1200	2x71 85 2x60 70 2x60 50 2x52 50	100 100 100 100	950 550 500 450	0.88 60 1.50 60 1.80 60 2.15 60	35 35 35 40	8 200 19 480 32 480 32 540	0.8 0.7 0.7 0.7	X101	See data sheet for pin arrangement
DSEI 2x61-02A DSEI 2x61-04C DSEI 2x61-06C DSEI 2x61-10B DSEI 2x61-12B	200 400 600 1000 1200	2x71 85 2x60 70 2x60 70 2x60 50 2x52 50	100 100 100 100 100	950 550 550 500 450	0.88 60 1.50 60 1.50 60 1.80 60 2.15 60	35 35 35 35 40	8 200 19 480 19 480 32 480 32 480	0.8 0.7 0.7 0.7 0.7	X027a	X102 ECO-PAC 2 Weight = 24 g
DSEI 2x121-02P	200	2x123 70	150	1200	0.95 120	35	12 200	0.7	X102	
DSEI 2x121-02A	200	2x123 70	150	1200	0.95 120	35	12 200	0.5	X027a	See data sheet for pin arrangement
DSEI 2x101-06P DSEI 2x101-12P	600 1200	2x96 70 2x91 50	150 130	1200 900	1.17 100 1.61 100	40 40	19 200 24 200	0.5 0.5	X102	
DSEI 2x101-06A DSEI 2x101-12A	600 1200	2x96 70 2x91 50	150 130	1200 900	1.17 100 1.61 100	35 40	19 200 24 200	0.5 0.5	X027a	
DSEI 2x161-02P DSEI 2x161-06P DSEI 2x161-12P	200 600 1200	2x165 70 2x147 70 2x128 70	270 270 270	1200 1200 1200	1.05 200 1.40 200 1.75 200	35 35 40	20 200 45 200 48 200	0.29 0.29 0.29	X102	

FRED & HiPerFRED™ Modules

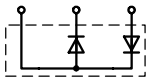
$I_{FAV} = 75 - 582 \text{ A}$

Type	V_{RRM}	$I_{FAV} @ T_C$ d = 0.5		I_{FRMS}	I_{FSM} 10 ms 45°C	$V_F @ I_F$ max. $T_{VJ} = 125^\circ\text{C}$		t_{rr} typ. $T_{VJ} = 25^\circ\text{C}$	$I_{RM} @ -di/dt$ max. $T_{VJ} = 100^\circ\text{C}$		R_{thJC}	P_{tot} max.	Fig. No.	Package style
$T_{VJM} = 150^\circ\text{C}$ ► New	V	A	°C	A	A	V	A	ns	A	A/ μs	K/W	W		Outline drawings on page 188 - 224
FRED														
MEO 550-02DA	200	582	75	822	4800	1.08	520	150	15	200	0.071	1750	X126c	X125c Weight = 90 g 
MEO 500-06DA	600	514	75	726		1.41	520	250	132	800		1750		
MEO 450-12DA	1200	453	75	640		1.76	520	450	165	800		1750		
MEK 75-12DA	1200	75	75	107	1200	1.85	100	250	33	200	0.45	280*	X125c	X126a Weight 150 g 
MEA 75-12DA	1200	75	75											
MEE 75-12DA	1200	75	75											
MEK 95-06DA	600	95	75	142	1200	1.36	100	250	21	200	0.45	280*		X126c Weight 150 g 
MEA 95-06DA	600	95	75											
MEE 95-06DA	600	95	75											
MEK 350-02DA	200	356	75	503	2400	0.92	260	150	15	200	0.143	875*		X126a Weight 150 g 
MEK 300-06DA	600	304	75	430		1.19	260	250	66	400		875*		
MEK 250-12DA	1200	260	75	367		1.54	260	450	83	400		875*		
MEE 300-06DA	600	304	75	430	2400	1.19	260	250	66	400	0.143	875*		X126c Weight 150 g 
MEE 250-12DA	1200	260	75	367		1.54	260	450	83	400		875*		
MEA 300-06DA	600	304	75	430	2400	1.19	260	250	66	400	0.143	875*		
MEA 250-12DA	1200	260	75	367		1.54	260	450	83	400		875*		
HiPerFRED														
MEK 150-04DA	400	150	100	200	1200	1.4①	300	300	11 typ.	100	0.35	360	X125c	X126a Weight 150 g 
MEK 600-04DA	400	575	80	800	3000	1.1	400	220	80 typ.	900	0.11	1100	X126a	
► MPK 95-06DA	600	95	110	200	1200	1.4	100	35	5.5	100	0.575	215	X125c	

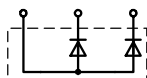
1 phase and 3 phase rectifiers with fast recovery epitaxial diodes (FRED)

* P_D ① $T_{VJM} = 150^\circ\text{C}$

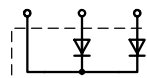
Diode connections for Fig. 125 (TO-240)



MEE

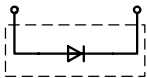


MEA

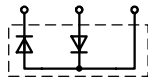


MEK / MPK

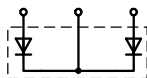
Diode connections for Fig. 126 (34 mm package)



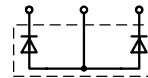
MEO



MEE



MEK



MEA