

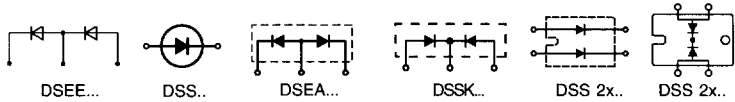
# Schottky Diodes



Type	$V_{RRM}$	$I_{FAV}$ @ $T_C$ $d=0.5$	$T_C$	$V_F$ @ $I_F$ max. $T_{VJM} = 125^\circ C$	$I_F$	$E_{AS}$	$I_{AR}$	$T_{VJM}$	$R_{thJC}$	No. of Usg.	Package style
New	V	A	$^\circ C$	V	A	mJ	A	$^\circ C$	K/W		Outline drawings on page 91-100
DSSK 80-0008D	8	2x40	135	0.23	40	tbd	tbd	150	0.8	6	Fig. 2 <b>TO-252 AA</b> Weight = 0.3 g
DSS 2x200-0008D *		2x200	100	0.15	100	tbd	tbd	180	0.4	12	
DSS 20-0015B	15	20	135	0.33	20	tbd	tbd	150	1.4	4	Fig. 3 <b>TO-220AB</b> Weight = 4 g
DSSK 40-0015B		2x20	135	0.32	20	tbd	tbd	150	1.4	6	
DSSK 70-0015B		2x35	130	0.33	35	tbd	tbd	150	1.1	6	
DSS 25-0025B	25	25	125	0.44	25	tbd	tbd	150	1.4	4	Fig. 4 <b>TO-220 AC</b> Weight = 2 g
DSSK 48-0025B		2x25	130	0.35	20	tbd	tbd	150	1.2	3	
DSSK 50-0025B		2x25	125	0.42	25	tbd	tbd	150	1.4	6	
DSSK 80-0025B		2x40	130	0.39	40	10	6.0	150	0.8	6	
DSSK 48-003B	30	2x25	130	0.35	20	tbd	tbd	150	1.2	6	Fig. 5a <b>TO-263AB</b> Weight = 2 g
DSSK 48-003BS		2x25	130	0.35	20	tbd	tbd	150	1.2	5a	
DSSK 80-003B		2x40	130	0.39	40	10	6.0	150	0.8	6	
DSS 6-0045AS	45	6	160	0.53	6	24	1.3	175	3.0	2	Fig. 6 <b>TO-247 AD</b> Weight = 6 g
DSS 10-0045A		10	160	0.58	10	24	1.3	175	1.7	4	
DSS 10-0045B		10	135	0.45	10	24	1.3	150	1.7	4	
DSS 16-0045A		16	160	0.57	15	32	1.5	175	1.4	4	
DSS 16-0045AS		16	160	0.57	15	32	1.5	175	1.4	5a	
DSS 16-0045B		16	130	0.42	15	32	1.5	150	1.4	4	
DSS 25-0045A		25	155	0.59	25	46	1.8	175	1.1	4	
DSS 60-0045B		60	100	0.57	60	57	2.0	150	0.8	8	
DSSK 20-0045A		2x10	160	0.58	10	24	1.3	175	1.7	3	
DSSK 20-0045B		2x10	135	0.45	10	24	1.3	150	1.7	3	
DSSK 28-0045A		2x14	160	0.57	15	32	1.5	175	1.4	3	
DSSK 28-0045B		2x14	135	0.42	15	32	1.5	150	1.4	3	
DSSK 28-0045BS		2x14	135	0.42	15	32	1.5	150	1.4	5a	
DSSK 30-0045A		2x15	160	0.57	15	32	1.5	175	1.4	6	
DSSK 30-0045B		2x15	135	0.41	15	32	1.5	150	1.4	6	
DSSK 60-0045A		2x30	150	0.60	30	46	1.8	175	1.1	6	
DSSK 60-0045B		2x30	120	0.44	30	46	1.8	150	1.1	6	
DSSK 80-0045B	2x40	125	0.45	40	57	2.0	150	0.8	6		
DSS 2x61-0045A	2x60	105	0.66	60	57	2.0	150	0.8	12		
DSS 2x81-0045B	2x80	75	0.64	80	57	2.0	150	0.8	12		
DSS 2x121-0045B	2x120	100	0.59	120	112	2.8	150	0.4	12		
DSS 2x160-0045A*	2x160	100	0.73	160	112	2.8	150	0.3	12		
DSSK 28-006B	60	2x15	135	0.52	15	tbd	tbd	150	1.1	3	Fig. 12 <b>SOT-227B miniBLOC</b> Weight = 30 g
DSSK 28-006BS		2x15	135	0.52	15	tbd	tbd	150	1.1	5a	
DSSK 40-006B		2x20	130	0.50	20	tbd	tbd	150	1.1	6	
DSSK 80-006B		2x40	120	0.51	40	tbd	tbd	150	0.8	6	
DSSK 40-008B	80	2x20	130	0.57	20	tbd	tbd	150	1.1	6	Fig. 83 <b>ISOPLUS220™</b> Weight = 2 g
DSSK 70-008A		2x35	150	0.66	35	tbd	tbd	175	0.8	6	
DSSK 2x111-008A		2x110	105	0.72	100	19	1.4	150	0.4	12	
FSS 100-008A		85	90	0.80	75	tbd	tbd	175	1.4	86	
DSS 10-01A	100	10	160	0.65	10	7	0.8	175	1.7	4	Fig. 86 <b>ISOPLUS i4-PAC™</b> Weight = 9 g
DSS 10-01AS		10	160	0.65	10	7	0.8	175	1.7	5a	
DSS 16-01A		16	155	0.64	15	10	1.0	175	1.4	4	
DSS 16-01AS		16	155	0.64	15	10	1.0	175	1.4	5a	
DSS 20-01AC		20	140	0.65	10	7	0.8	175	1.7	83	
DSSK 16-01A		2x8	165	0.65	10	7	0.8	175	1.7	3	
DSSK 16-01AS		2x8	165	0.65	10	7	0.8	175	1.7	5a	
DSSK 16-01C		2x8	165	0.65	10	7	0.8	175	1.7	3	
DSSK 28-01A		2x15	155	0.64	15	10	1.0	175	1.4	3	
DSSK 28-01AS		2x15	155	0.64	15	10	1.0	175	1.4	5a	
DSSK 30-01A		2x15	160	0.64	15	10	1.0	175	1.4	6	
DSSK 50-01A		2x25	155	0.65	25	13	1.1	175	1.1	6	
DSS 2x41-01A		2x40	110	0.70	40	13	1.1	150	1.1	12	
DSS 2x61-01A		2x60	105	0.73	60	16	1.2	150	0.8	12	
DSS 2x160-01A*	2x160	95	0.80	160	31	1.7	150	0.30	12		

Data per Diode unless otherwise specified  
\* non isolated base plate

# Schottky Diodes



Type	$V_{RRM}$ V	$I_{FAV}$ @ $T_C$ $d=0.5$ A	$T_C$ °C	$V_F$ @ $I_F$ max. $T_{VJM} = 125^\circ\text{C}$ V	$I_F$ A	$E_{AS}$ mJ	$I_{AR}$ A	$T_{VJM}$ °C	$R_{thJC}$ K/W	Fig. No.	Package style
DSSK 20-013A	130	2x10	165	0.65	10	tbd	tbd	175	1.4	3	Outline drawings on page 91-100 Fig. 3 TO-220AB Weight = 4 g
DSSK 60-013A		2x30	155	0.69	30	tbd	tbd	175	0.8	6	
DSSK 20-015A	150	2x10	165	0.65	10	tbd	tbd	175	1.4	3	Fig. 4 TO-220 AC Weight = 2 g
DSSK 60-015A		2x30	155	0.69	30	tbd	tbd	175	0.8	6	
DSSK 60-015AR		2x30	155	0.69	30	tbd	tbd	175	0.8	7	
DSS 2x101-015A	150	2x100	110	0.78	100	tbd	tbd	150	0.4	12	
DSSK 10-018A	180	2x5	165	0.62	5	tbd	tbd	175	1.7	3	Fig. 6 TO-247 AD Weight = 6 g
DSSK 30-018A		2x15	150	0.72	15	tbd	tbd	175	1.7	6	

Data per Diode unless otherwise specified

## HiPerDyn™FRED

Series connected diodes for high switching frequencies; packages isolated (2500 V<sub>RMS</sub>)

Type	$V_{RRM}$ V	$I_{FAV}$ @ $T_C$ $d=0.5$ A	$T_C$ °C	$V_F$ @ $T_{VJ}$ max. $I_F = I_{FAV}$ V	$T_{VJ}$ °C	$t_{tr}$ typ. $T_{VJ} = 25^\circ\text{C}$ ns	$I_{RM}$ typ. @ $-di/dt$ $T_{VJ} = 100^\circ\text{C}$ A	$A/\mu\text{s}$	$T_{VJM}$ °C	$R_{thJC}$ K/W	Fig. No.
DSEP 9-06CR	600	9	140	2.9	150	15	3.5	100	175	1.0	7a
DSS 17-06CR		17	95	2.7	125	45	4.0	100	175	1.4	
DSEP 15-12CR	1200	15	130	2.7	150	20	4.0	100	175	1.0	12
DSEP 30-12CR		30	115	3.1	150	20	4.0	100	175	0.6	
DSEP 2x35-06 C	600	35	100	2.0	125	20	4.5	100	150	0.6	
DSEP 2x25-12 C	1200	25	95	3.3	125	20	4.0	100	150	0.6	



Fig. 3 TO-220AB  
Weight = 4 g



Fig. 4 TO-220 AC  
Weight = 2 g



Fig. 6 TO-247 AD  
Weight = 6 g



Fig. 7a ISOPLUS247™  
DCB isolated package  
Weight = 5 g

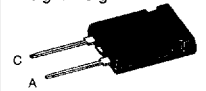


Fig. 7a ISOPLUS247™  
DCB isolated package  
Weight = 5 g

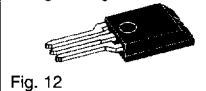


Fig. 83 ISOPLUS220™  
Weight = 2 g



Fig. 12 SOT-227B miniBLOC  
Weight = 30 g



Fig. 86 ISOPLUS 14-PAC™  
Weight = 9 g

## Dual Ultrafast Diodes

Series connected diodes for high switching frequencies with middle connection; packages isolated (2500 V<sub>RMS</sub>)

Type	$V_{RRM}$ V	$I_{FAV}$ @ $T_C$ $d=0.5$ A	$T_C$ °C	$V_F$ @ $T_{VJ}$ $I_F = I_{FAV}$ V	$T_{VJ}$ °C	$t_{tr}$ typ. $T_{VJ} = 25^\circ\text{C}$ ns	$I_{RM}$ typ. @ $-di/dt$ $T_{VJ} = 100^\circ\text{C}$ A	$A/\mu\text{s}$	$T_{VJM}$ °C	$R_{thJC}$ K/W	Fig. No.
▶ New											
▶ DSEE 8-06CC	2x300	10	110	1.75	25	30	2	100	175	2.4	83
▶ DSEE 15-06CC		15	115	1.26	125	30	2	100	175	1.6	
▶ DSEE 29-06CC		30	115	1.26	25	30	4.5	100	175	0.9	
▶ DSEE 15-12CC	2x600	15	85	2.05	25	35	4	100	175	1.6	86
▶ DSEE 29-12CC		30	90	2.50	25	30	30	200	175	0.9	
▶ DSEE 55-24N1F	2x1200	53	90	2.50	25	220	79	750	175	0.63	

### Common anode connected

▶ DSEA 16-06AC	600	2x10	85	1.42	125	35	3.5	100	175	3	83
▶ DSEA 29-06AC		2x15	140	1.49	125	35	4	100	174	1.6	
▶ DSEA 59-06BC		2x30	125	1.75	125	30	4	100	175	0.9	

Data according to IEC 60747 and refer to a single diode unless otherwise stated