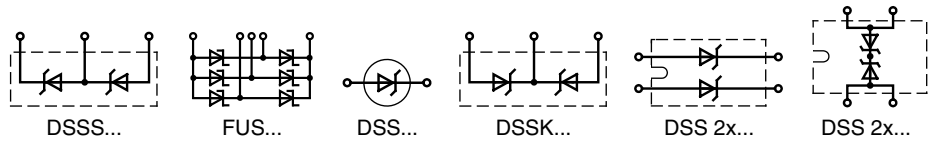


# IXYS Schottky Diodes

MSC Vertriebs GmbH

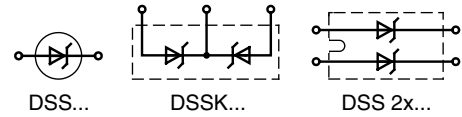


Type	V <sub>RRM</sub> V	I <sub>FAV</sub> A d = 0.5	@ T <sub>C</sub> °C	V <sub>F</sub> V T <sub>VJ</sub> = 125°C	@ I <sub>F</sub> A	T <sub>VJM</sub> °C	R <sub>thJC</sub> K/W	Fig. No.	Package style Outline drawings on pages O-1...O-14
DSS 40-0008D DSSK 80-0008D DSS 2x200-0008D <sup>①</sup>	8	40 2x 40 2x 200	130 130 90	0.28 0.28 0.28	40 40 100	150 150 150	0.80 0.80 0.40	X014a X014a X027b	X004 <b>TO-252AA</b> 
DSS 20-0015B DSSK 40-0015B DSSK 70-0015B	15	20 2x 20 2x 35	135 135 130	0.33 0.32 0.35	20 20 35	150 150 150	1.40 1.40 1.10	X005b X014a X014a	X005a <b>TO-220AB</b> 
DSS 6-0025BS DSS 25-0025B DSSK 18-0025BS DSSK 38-0025B DSSK 38-0025BS DSSK 48-0025B DSSK 50-0025B DSSK 80-0025B	25	6 25 2x 10 2x 20 2x 20 2x 25 2x 25 2x 40	140 125 140 130 130 130 125 130	0.30 0.45 0.37 0.40 0.40 0.35 0.43 0.39	6 25 10 20 20 20 25 40	150 150 150 150 150 150 150 150	3.00 1.40 1.70 1.40 1.40 1.20 1.40 0.80	X004 X005b X011b X005a X011b X005a X014a X014a	X005b <b>TO-220AC</b> 
DSSK 48-003B DSSK 48-003BS DSSK 70-003B DSSK 80-003B	30	2x 25 2x 25 2x 35 2x 40	130 130 125 130	0.35 0.35 0.39 0.39	20 20 35 40	150 150 150 150	1.20 1.20 1.10 0.80	X005a X011b X014a X014a	X010b <b>ISOPLUS220™</b> 
DSS 6-0045AS DSS 10-0045B DSS 16-0045A DSS 16-0045AS DSS 25-0045A DSS 60-0045B DSSK 20-0045B DSSK 28-0045BS DSSK 60-0045A DSSK 60-0045B DSSK 80-0045B DSS 2x61-0045A DSS 2x81-0045B DSS 2x121-0045B DSS 2x160-0045A <sup>①</sup> FUS 45-0045B	45	6 10 16 16 25 60 2x 10 2x 15 2x 30 2x 30 2x 40 2x 60 2x 80 2x 120 2x 160 45	165 135 160 160 155 105 135 135 150 125 125 110 85 100 90 90	0.50 0.46 0.56 0.56 0.56 0.57 0.46 0.43 0.58 0.45 0.46 0.65 0.63 0.59 0.72 0.54	6 10 16 16 25 60 10 15 30 30 40 60 80 120 160 15	175 150 175 175 175 150 150 150 175 150 150 150 150 150 150 150	3.00 1.70 1.40 1.40 1.10 0.80 1.70 1.40 1.10 1.10 0.80 0.80 0.80 0.40 0.40 3.10	X004 X005b X005b X011b X005b X014b X005a X011b X014a X014a X014a X027a X027a X027a X027b X024a	X011b <b>TO-263AB</b> 
DSS 10-006A DSSK 28-006BS DSSK 40-006B DSSK 80-006B DSSK 80-006BR	60	10 2x 15 2x 20 2x 40 2x 40	160 135 135 120 120	0.65 0.52 0.46 0.51 0.51	10 15 20 40 40	175 150 150 150 150	1.70 1.40 1.10 0.80 0.80	X005b X011b X014a X014a X016a	X014b <b>TO-247AD</b> 
DSSK 40-008B DSSS 35-008AR DSSK 70-008A DSSK 70-008AR DSS 2x111-008A	80	2x 20 2x 80 2x 35 2x 35 2x 110	130 150 150 150 105	0.52 0.68 0.64 0.64 0.72	20 35 35 35 100	150 175 175 175 150	1.10 0.80 0.80 0.80 0.40	X014a X016a X014a X016a X027a	X016a <b>ISOPLUS247™</b> 
DSS 10-01A DSS 10-01AS DSS 16-01A DSS 16-01AS DSS 20-01AC DSSS 30-01AR DSSK 16-01A DSSK 16-01AS DSSK 28-01AS DSSK 30-01A DSSK 50-01A DSS 2x41-01A DSS 2x61-01A DSS 2x160-01A <sup>①</sup>	100	10 10 16 16 20 2x 100 2x 8 2x 8 2x 15 2x 15 2x 25 2x 40 2x 60 2x 160	160 160 155 155 140 155 165 165 160 160 155 110 105 80	0.66 0.66 0.65 0.65 0.80 0.63 0.63 0.63 0.64 0.63 0.64 0.70 0.74 0.81	10 10 16 16 20 30 8 8 15 15 25 40 60 160	175 175 175 175 175 175 175 175 175 175 175 150 150 150	1.70 1.70 1.40 1.40 1.70 0.80 1.70 1.70 1.40 1.40 1.10 1.10 0.80 0.40	X005b X011b X005b X011b X010b X016a X005a X011b X011b X014a X014a X027a X027a X027b	X024a <b>ISOPLUS i4-PAC™</b> 
									X027a/b <b>SOT-227B/UI miniBLOC</b> 

① non isolated base plate

# Schottky Diodes

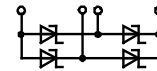
MSC Vertriebs GmbH



Type	V <sub>RRM</sub> V	I <sub>FAV</sub> A d = 0.5	@ T <sub>C</sub> °C	V <sub>F</sub> V T <sub>VJ</sub> = 125°C	@ I <sub>F</sub> A	T <sub>VJM</sub> °C	R <sub>thJC</sub> K/W	Fig. No.	Package style Outline drawings on pages O-1...O-14
DSS 6-015AS	150	6	160	0.62	6	175	3.00	X004	X004 <b>TO-252AA</b> 
DSSK 20-015A		2x 10	165	0.61	10	175	1.40	X005a	
DSSK 50-015A		2x 25	150	0.68	25	175	1.10	X014a	
DSSK 60-015A		2x 30	155	0.66	30	175	0.80	X014a	
DSSK 60-015AR		2x 30	155	0.66	30	175	0.80	X016a	
DSS 2x101-015A		2x 100	110	0.77	100	150	0.40	X027a	
DSSK 10-018A	180	2x 5	165	0.60	5	175	1.70	X005a	X005a <b>TO-220AB</b> 
DSSK 30-018A		2x 15	150	0.74	15	175	1.70	X014a	
DSSK 60-02A	200	2x 30	155	0.70	30	175	0.80	X014a	X010a <b>ISOPLUS220™</b> 
DSSK 60-02AR		2x 30	155	0.70	30	175	0.80	X016a	
DSS 2x101-02A		2x 100	105	0.84	100	150	0.40	X027a	

## Silicon Carbide Schottky Diodes

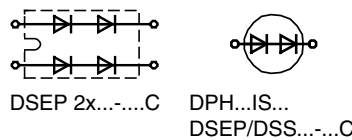
No reverse recovery



Type	V <sub>RRM</sub> V	I <sub>FAV</sub> A d = 0.5	@ T <sub>C</sub> °C	V <sub>F</sub> V typ., T <sub>VJ</sub> = 125°C	@ I <sub>F</sub> A	C <sub>J</sub> pF	R <sub>thJC</sub> K/W	Fig. No.	Package style
➤ New									
FBS 10-06SC	600	3.0	90	1.70	4.0	9.0	8.00	X024a	X011b <b>TO-263AB</b> 
FBS 16-06SC		5.0	90	1.50	6.0	21.0	5.60	X014a	
➤ FBS 10-12SC	1200	4.5	80	2.61	5.0	33.0	7.00		X016a <b>ISOPLUS247™</b> 

## HiPerDyn™ FRED

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

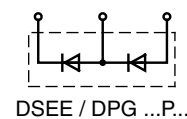


Type	V <sub>RRM</sub> V	I <sub>FAV</sub> A d = 0.5	@ T <sub>C</sub> °C	V <sub>F</sub> V I <sub>F</sub> = I <sub>FAV</sub>	@ T <sub>VJ</sub> °C	t <sub>rr</sub> typ. T <sub>VJ</sub> = 25°C ns	I <sub>RM</sub> typ. T <sub>VJ</sub> = 100°C A	@ -di/dt A/μs	T <sub>VJM</sub> °C	R <sub>thJC</sub> K/W	Fig. No.	Package style
DSS 17-06CR *	600	17	95	2.71	125	45	4.0	100	175	1.40	X016b	X016b <b>ISOPLUS247™</b> 
DPH 30IS600HI		30	135	1.89	150	30	2.0	200	175	0.55	X016b	
DSEP 15-12CR	1200	15	130	2.67	150	20	4.0	100	175	1.00	X024a	X024a <b>ISOPLUS i4-PAC™</b> 
DSEP 30-12CR		30	115	3.10	150	20	4.0	100	175	0.60	X024a	
DSEP 2x25-12C	1200	2x 25	90	3.00	125	20	3.0	100	150	0.60	X027a	X024b <b>ISOPLUS i4-PAC™</b> 

\* series connected Schottky Diodes

## Dual Ultrafast Diodes

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



DPG 30P300PJ	2x 300	30	135	0.98	150	35	3.0	200	175	1.05	X010a	X027a <b>SOT-227B miniBLOC</b> 
DPG 10P400PJ	2x 400	10	150	1.02	150	45	4.0	200	175	2.05		
DSEE 15-12CC	2x 600	15	100	1.50	125	35	4.0	100	175	1.60	X014a	
DSEE 29-12CC		30	90	1.75	125	30	4.0	100	175	0.90		
DSEE 30-12A ①		30	90	1.78	125	30	4.0	100	175	0.90	X014a	
DSEE 55-24N1F	2x 1200	55	90	1.50	125	220 125°C	79.0 125°C	750	150	0.63	X024b	

① Non isolated base plate