

Fast Recovery Epitaxial Diodes (FRED) and FRED Modules

$I_{FAV} = 8 - 305 A$

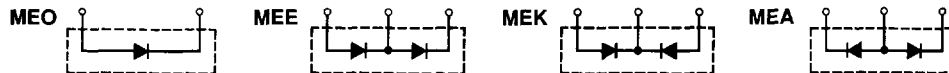
Type ①	V_{RRM}	$I_{FAV} @ T_C$		I_{FRMS} T_{VJ}	I_{FSM} 45°C 10 ms	$V_F @ I_F$ max. $T_{VJ} = 150^\circ C$	t_{rr} typ. $T_{VJ} = 25^\circ C$	$I_{RM} @ -di/dt$ typ. $T_{VJ} = 100^\circ C$	R_{thJC}	Package style		
New	V	A	°C	A	A	V	ns	A	K/W	See outlines on page 30		
DSEI 8-06A	600	8	115	16	100	1.3	8	35	2.5	64	2.5	Fig. 4 TO-220 AC Weight = 2 g
● DSEI 8-05A	500											
● DSEI 8-04A	400											
DSEI 12-12A	1200	11	100	25	75	2.2	12	50	6.5	100	1.6	Fig. 5 TO-247 AD Weight = 6 g
DSEI 12-10A	1000	12	100			2.1	12					
● DSEI 12-08A	800											
DSEI 12-06A	600	12	100	25	100	1.5	16	35	4	100	2.0	Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
● DSEI 12-05A	500											
● DSEI 12-04A	400											
DSEI 30-12A	1200	26	85	70	200	2.2	30	40	16	240	0.9	Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
DSEI 30-10A	1000	30	85			2.0	36	35				
● DSEI 30-08A	800											
DSEI 30-06A	600	37	85	70	300	1.4	43	35	10	240	1.0	Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
● DSEI 30-05A	500											
● DSEI 30-04A	400											
DSEI 60-12A	1200	52	60	100	500	2.15	60	40	32	480	0.66	Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
DSEI 60-10A	1000	60	60			1.8	60	35				
● DSEI 60-08A	800											
DSEI 60-06A	600	60	70	100	550	1.5	70	35	19	480	0.75	Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
● DSEI 60-05A	500											
● DSEI 60-04A	400											
DSEI 2x30-12B	1200	2x28	50	70	200	2.2	30	40	16	240	1.25	Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
DSEI 2x30-10B	1000	2x30	50			2.0	36	35				
● DSEI 2x30-08B	800											
DSEI 2x30-06C	600	2x30	85	70	300	1.4	43	35	10	240	1.25	Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
● DSEI 2x30-05C	500											
● DSEI 2x30-06B	600											
DSEI 2x30-04C	400											Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
● DSEI 2x31-08B	800											
● DSEI 2x31-05C	500											
DSEI 2x31-06B	600	2x30	85	70	300	1.4	43	35	10	240	1.25	Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
● DSEI 2x31-05C	500											
● DSEI 2x31-06B	600											
DSEI 2x31-04C	400											Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
● DSEI 2x61-08B	800											
● DSEI 2x61-05C	500											
DSEI 2x61-06B	600	2x52	50	100	450	2.15	60	40	32	480	0.7	Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
DSEI 2x61-10B	1000	2x60	50			1.8	60	35				
● DSEI 2x61-08B	800											
DSEI 2x61-06C	600	2x60	60	100	550	1.5	70	35	19	480	0.7	Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
● DSEI 2x61-05C	500											
● DSEI 2x61-06B	600											
DSEI 2x61-04C	400											Fig. 7 miniBLOC SOT-227 B Weight = 30 g E 72 873 (M)
● DSEI 2x61-05C	500											
● DSEI 2x61-06B	600											

① $T_{VJ} = 150^\circ C$ for all types - Data according to IEC / DIN 747-2

● Part numbers have been replaced by the next higher prime product in this category.

A = Anode, C = Cathode

FRED Modules



Type ①	V_{RRM}	$I_{FAV} @ T_C$		I_{FRMS} T_{VJ}	I_{FSM} 45°C 10 ms	$V_F @ I_F$ max. $T_{VJ} = 125^\circ C$	t_{rr} typ. $T_{VJ} = 100^\circ C$	$I_{RM} @ -di/dt$ max. $T_{VJ} = 100^\circ C$	R_{thJS}	Package style		
New	V	A	°C	A	A	V	ns	A	K/W	See outlines on page 32 Fig.		
MEO 260-12DA	1200	262	65	371	2400	1.85	300	250	120	800	0.114	Weight = 150 g
MEO 300-06DA	600	305	65	431	2400	1.46	300	150	84	800	0.114	
MEE 140-12DA ②	1200	137	65	194	1200	1.81	150	250	60	400	0.228	Fig. 8 MEO ...
MEE 160-06DA ②	600	162	65	229	1200	1.42	150	150	42	400	0.228	
MEK 140-12DA ②	1200	137	65	194	1200	1.81	150	250	60	400	0.228	
MEK 160-06DA ②	600	162	65	229	1200	1.42	150	150	42	400	0.228	
MEA 140-12DA ②	1200	137	65	194	1200	1.81	150	250	60	400	0.228	
MEA 160-06DA ②	600	162	65	229	1200	1.42	150	150	42	400	0.228	

① $T_{VJ} = 150^\circ C$ for all types, ② In development - Data according to IEC / DIN 747-2