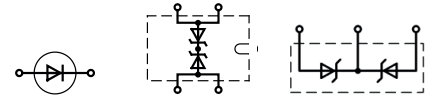


FRED Diodes

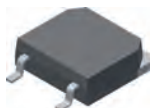
Fast Recovery Epitaxial Diodes

$I_{FAV} = 8 - 126 \text{ A}$



Type	V_{RRM}	I_{FAV}	@ T_C	I_{FRMS}	I_{FSM}	V_F	@ I_F	t_{rr}	I_{RM}	-di/dt	R_{thJC}	Fig. No.	Package style
> New	V	A	°C	A	A	V	A	ns	A	A/μs	K/W		Outline drawings on pages O-36...O-59
		d = 0.5			10 ms 45°C	$T_{VJ} = 150°C$		$T_{VJ} = 25°C$	$T_{VJ} = 100°C$				
DSEI 8-06A	600	8	115	16	100	1.30	8	35	2.5	64	2.50	X005b	TO-220AC
DSEI 8-06AS	600	8	115	16	100	1.30	8	35	2.5	64	2.50	X011b	
DFE 10I600PM	600	10	100	16	100	1.30	10	35	2.5	64	4.20	X007b	
DSEI 12-06A	600	14	100	25	100	1.50	16	35	4.0	100	2.00	X005b	TO-220ACFP
DSEI 12-06AS	600	14	100	25	100	1.50	16	35	4.0	100	2.00	X011b	
DSEI 12-10A	1000	12	100	25	75	2.10	12	50	6.5	100	1.60	X005b	
DSEI 12-12A	1200	11	100	25	75	2.20	12	50	6.5	100	1.60	X005b	
DSEI 12-12AZ	1200	11	100	25	75	2.20	12	50	6.5	100	1.60	X011c	
DSEI 20-12A	1200	17	85	70	130	1.87	12	40	7.0	100	1.60	X005b	
> DSEI 25-06A	600	25	110	35	240	1.55	25	35	9.0	200	1.20	X005b	
DSEI 19-06AS	600	20	65	25	100	1.50	16	35	4.0	100	2.00	X011b	
> DSEI 25-06AS	600	25	110	35	240	1.55	25	35	9.0	200	1.20	X011b	TO-263AB
DSEI 36-06AS	600	37	85	70	300	1.40	37	35	10.0	240	1.00	X011b	
> DFE 25I600HA	600	25	110	70	240	1.52	25	35	9.0	200	1.20	X014b	
DSEI 30-06A	600	37	85	70	300	1.40	37	35	10.0	240	1.00	X014b	
DSEI 30-10A	1000	30	85	70	200	2.00	36	35	16.0	240	0.90	X014b	
DSEI 30-10AR	1000	30	85	70	200	2.00	36	35	16.0	240	0.90	X016b	TO-263ABHV
DSEI 30-12A	1200	26	85	70	200	2.20	30	40	16.0	240	0.90	X014b	
DSEK 60-02A	200	2x 34	115	50	325	0.85	30	35	4.0	100	1.00	X014a	
DSEK 60-02AR	200	2x 34	115	50	325	0.85	30	35	4.0	100	1.00	X016a	
DSEK 60-06A	600	2x 30	85	50	300	1.40	37	35	10.0	240	1.00	X014a	TO-247AD
DSEK 60-12A	1200	2x 26	85	50	200	2.20	30	40	16.0	240	0.90	X014a	
DSEI 60-02A	200	69	85	98	600	0.88	60	35	8.0	200	0.75	X014b	
DSEI 60-06A	600	60	70	100	550	1.50	70	35	19.0	480	0.75	X014b	
DSEI 60-10A	1000	60	60	100	500	1.80	60	35	32.0	480	0.66	X014b	
DSEI 60-12A	1200	52	60	100	500	2.00	60	40	32.0	480	0.66	X014b	
DSEI 120-06A	600	126	70	100	600	1.12	70	35	17.0	200	0.35	X014b	TO-247AD
DSEI 120-12A	1200	109	60	100	600	1.55	70	40	25.0	200	0.35	X014b	
> DSEI 120-12AZ	1200	109	60	100	600	1.55	70	40	25.0	200	0.35	X019a	

X019a TO-268AAHV



X017b

TO-3P



X016b

ISOPLUS247™



X016a

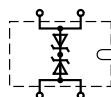
ISOPLUS247™



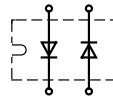
FRED Diodes

Fast Recovery Epitaxial Diodes

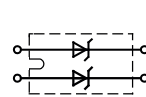
$I_{FAV} = 2 \times 28 \text{ A} - 2 \times 165 \text{ A}$



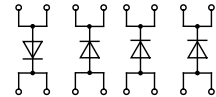
DSEK...



DSEI 2x...0-...



DSEI 2x...1-...



2x...0-...

2x...1-...

Type	V_{RRM}	I_{FAV} d = 0.5	@ T_C	I_{FRMS}	I_{FSM} 10 ms 45°C	V_F $T_{VJ} = 150^\circ\text{C}$	@ I_F	t_{rr} typ. $T_{VJ} = 25^\circ\text{C}$	I_{RM} typ. $T_{VJ} = 100^\circ\text{C}$	-di/dt	R_{thJC}	Fig. No.	Package style Outline drawings on pages O-36...O-59
> New	V	A	°C	A	A	V	A	ns	A	A/μs	K/W		
> DSEK 300-06A ^①	600	2x 150	105	270	2000	1.20	150	77	50.0	600	0.20	X027d	
DSEI 2x30-04C	400	2x 30	85	70	300	1.40	30	35	10.0	240	1.25	X027a	
DSEI 2x30-06C	600	2x 30	85	70	300	1.40	30	35	10.0	240	1.25	X027a	
DSEI 2x30-10B	1000	2x 30	50	70	200	2.00	30	35	16.0	240	1.25	X027a	
DSEI 2x30-12B	1200	2x 28	50	70	200	2.20	30	40	16.0	240	1.25	X027a	X027a
DSEI 2x31-04C	400	2x 30	85	70	300	1.40	30	35	10.0	240	1.25	X027a	
DSEI 2x31-06C	600	2x 30	85	70	300	1.40	30	35	10.0	240	1.25	X027a	
DSEI 2x31-10B	1000	2x 30	50	70	200	2.00	30	35	16.0	240	1.25	X027a	
DSEI 2x31-12B	1200	2x 28	50	70	200	2.20	30	40	16.0	240	1.25	X027a	
DSEI 2x61-02A	200	2x 71	85	100	950	0.88	60	35	8.0	200	0.80	X027a	
DSEI 2x60-04C	400	2x 60	70	100	550	1.50	60	35	19.0	480	0.70	X027a	
DSEI 2x61-04C	400	2x 60	70	100	550	1.50	60	35	19.0	480	0.70	X027a	
DSEI 2x61-06C	600	2x 60	70	100	550	1.50	60	35	19.0	480	0.70	X027a	
DSEI 2x61-10B	1000	2x 60	50	100	500	1.80	60	35	32.0	480	0.70	X027a	
DSEI 2x61-12B	1200	2x 52	50	100	450	2.15	60	40	32.0	480	0.70	X027a	
DSEI 2x61-06P	600	2x 60	70	100	550	1.50	60	35	19.0	480	0.70	X101	
DSEI 2x61-12P	1200	2x 52	50	100	450	2.15	60	40	32.0	540	0.70	X101	
DSEI 2x121-02A	200	2x 123	70	150	1200	0.95	120	35	12.0	200	0.50	X027a	
DSEI 2x101-06A	600	2x 96	70	150	1200	1.17	100	35	19.0	200	0.50	X027a	X027d
> DFE 240X600NA	600	2x 120	80	150	1200	1.20	120	35	27.0	600	0.40	X027a	
DSEI 2x101-12A	1200	2x 91	50	130	900	1.61	100	40	24.0	200	0.50	X027a	
DSEI 2x101-06P	600	2x 96	70	150	1200	1.17	100	40	19.0	200	0.50	X102	
DSEI 2x101-12P	1200	2x 91	50	130	900	1.61	100	40	24.0	200	0.50	X102	
DSEI 2x161-02P	200	2x 165	70	270	1200	1.05	200	35	20.0	200	0.29	X102	
DSEI 2x161-06P	600	2x 147	70	270	1200	1.40	200	35	45.0	200	0.29	X102	
DSEI 2x161-12P	1200	2x 128	70	270	1200	1.75	200	40	48.0	200	0.29	X102	



SOT-227B miniBLOC



SOT-227UI miniBLOC

① non isolated base plate

