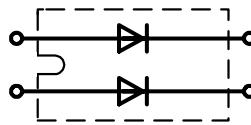


HiPerDynFRED™ Epitaxial Diode with soft recovery

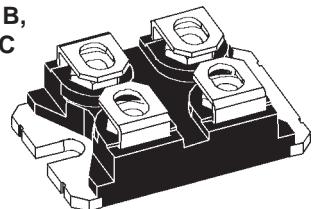
I_{FAV} = 2x35 A
V_{RRM} = 600 V
t_{rr} = 20 ns

Preliminary Data

V _{RSM}	V _{RRM}	Type
V	V	
600	600	DSEP 2x 35-06C



SOT-227 B,
miniBLOC



Symbol	Test Conditions	Maximum Ratings	
I _{FRMS}		100	A
I _{FAVM}	T _C = 100°C; rectangular, d = 0.5	35	A
I _{FRM}	t _p < 10 µs; rep. rating, pulse width limited by T _{VJM}	tbd	A
I _{FSM}	T _{VJ} = 45°C; t _p = 10 ms (50 Hz), sine	300	A
E _{AS}	T _{VJ} = 25°C; non-repetitive I _{AS} = 3 A; L = 180 µH	1.2	mJ
I _{AR}	V _A = 1.5·V _R typ.; f = 10 kHz; repetitive	0.3	A
T _{VJ}		-40...+150	°C
T _{VJM}		150	°C
T _{stg}		-40...+150	°C
P _{tot}	T _C = 25°C	210	W
V _{ISOL}	50/60 Hz, RMS, I _{ISOL} ≤ 1 mA	2500	V~
M _d	mounting torque (M4) terminal connection torque (M4)	1.1-1.5/9-13 1.1-1.5/9-13	Nm/lb.in. Nm/lb.in.
Weight	typical	30	g

Symbol	Test Conditions	Characteristic Values	
		typ.	max.
I _R ①	V _R = V _{RRM} ; T _{VJ} = 25°C T _{VJ} = 150°C	0.25 1.0	mA mA
V _F ②	I _F = 35 A; T _{VJ} = 125°C T _{VJ} = 25°C	1.97 2.50	V V
R _{thJC}		0.6	K/W
R _{thCH}	with heatsink compound	0.1	K/W
t _{rr}	I _F = 1 A; -di/dt = 300 A/µs; V _R = 30 V; T _{VJ} = 25°C	20	ns
I _{RM}	V _R = 100 V; I _F = 50 A; -di _F /dt = 100 A/µs T _{VJ} = 100°C	4.5	7.0
			A

Pulse test: ① Pulse Width = 5 ms, Duty Cycle < 2.0 %
② Pulse Width = 300 µs, Duty Cycle < 2.0 %

Data according to IEC 60747 and per diode unless otherwise specified

Recommended replacement:
2x DPH30IS600HI

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