

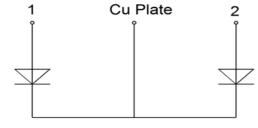
Features

- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix
- designates RoHS Compliant. See ordering information)
- Soft Reverse Recovery Characteristics
- Ultrafast Reverse Recovery Time
- Low Reverse Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- Low Inductance Package

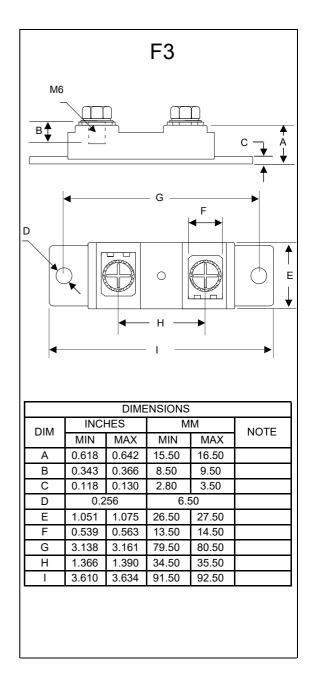
Applications

- Inversion Welder
- Uninterruptible Power Supply (UPS)
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Power Factor Correction (PFC) Circuit
- Converter & Chopper





200 Amp		
FRED Modules		
400 Volts		



Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.



Maximum Ratings

Symbol	Conditions	Values	Units
V _R		400	V
V _{RRM}		400	V
	T _C =125°C, Per Diode	100	А
I _{F(AV)}	T _C =125°C, Per Moudle	200	А
	T _C =125°C, 20KHz, Per Moudle	150	А
I _{F(RMS)}	T _C =125°C, Per Diode	150	А
1	1/2 Cycle , 50Hz, Sine	1500	А
I _{FSM}	1/2 Cycle , 60Hz, Sine	1800	А
l ² t	T _J =45°C, t=10ms, 50Hz, Sine	11250	A ² s
11	T _J =45°C, t=8.3ms, 60Hz, Sine	16200	A ² s
PD		833	W
TJ		-40 to +150	°C
T _{STG}		-40 to +125	°C
Torque	Recommended (M6)	3~4.7	N∙m
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Weight		92	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.15	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Тур.	Max.	Units
I _{RM}	V _R =400V			0.5	mA
	V _R =400V, T _J =125°C			1	mA
V _F	I _F =100A		1.1	1.35	V
	I _F =100A, T _J =125°C		1.0	1.25	V
trr	I _F =1A, V _R =30V, di _F /dt=-200A/µs		38		ns
trr			95		ns
I _{RRM}	V _R =200V, I _F =100A, di _F /dt=-200A/µs, T _J =25°C		8.5		А
trr	V = 200V L = 100A di (dt= 200A/wa T = 125°C		150		ns
I _{RRM}	V _R =200V, I _F =100A, di _F /dt=-200A/μs, T _J =125°C		14		А



Performance Curves

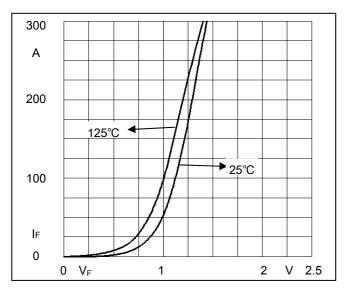


Fig1. Forward Voltage Drop vs Forward Current

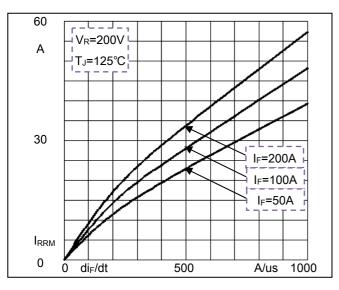


Fig3. Reverse Recovery Current vs di_F/dt

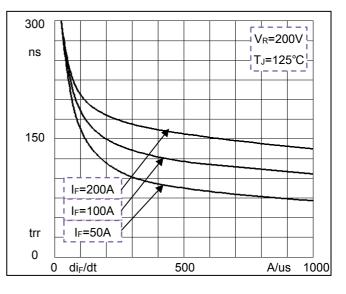


Fig2. Reverse Recovery Time vs di_F/dt

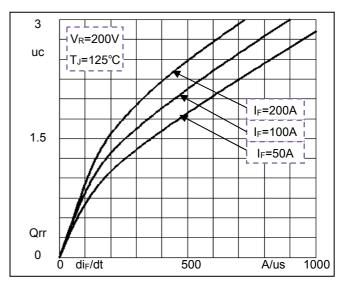


Fig4. Reverse Recovery Charge vs di_F/dt



Ordering Information

Device	Packing	
Part Number-BP	Bulk: 10PCS/BOX ;100PCS/CTN	

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