

Features

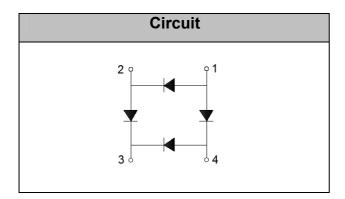
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- Blocking Voltage:800 to 1Î 00V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip

Applications

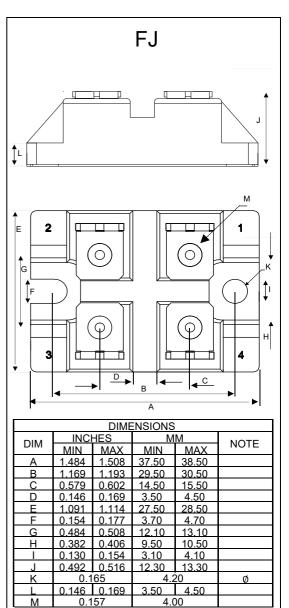
- Non-controllable rectifiers for AC/DC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

MCC Part Number	V _{RRM}	V _{RSM}
MD50H08FJ	800V	900V
MD50H12FJ	1200V	1300V
MD50H16FJ	1600V	1700V





50 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 800~1* 00 Volts





Maximum Ratings

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180 $^\circ$ conduction Tc=104 $^\circ\mathrm{C}$	50	A
IFSM	t=10mS Tvj =45°C	650	А
i ² t	t=10mS Tvj =45℃	2100	A ² s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Τvj		-40 to +150	°C
Tstg		-40 to +125	°C
Mt	To terminals(M4)	1±15%	Nm
Ms	To heatsink(M4)	1.2±15%	Nm
Weight	Module (Approximately)	27	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.6	°C/W
Rth(c-s)	Module	0.1	°C/W

Electrical Characteristics

Symbol Conditions	Values			Unito	
	Conditions	Min.	Тур.	Max.	Units
Vfm	T=25℃ IF =100A	—	1.25	1.40	V
Ird	Tvj=150℃ VRD=VRRM	_	_	1	mA



Performance Curves

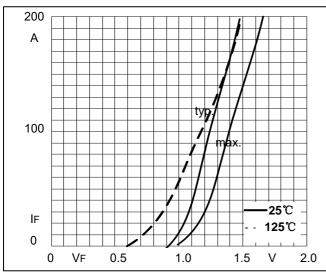


Fig1 Forward Characteristics

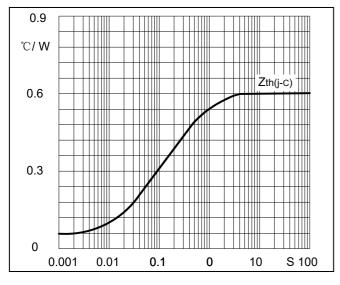


Fig3. Transient thermal impedance

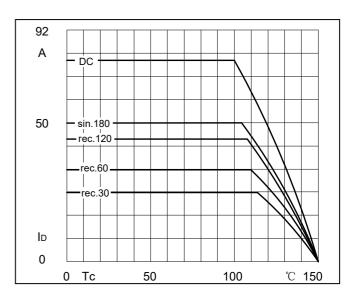


Fig2.Forward Current Derating Curve

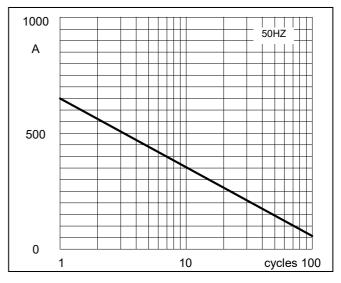


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information

Device	Packing
Part Number-BP	Bulk: 25PCS/BOX ;125PCS/CTN

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