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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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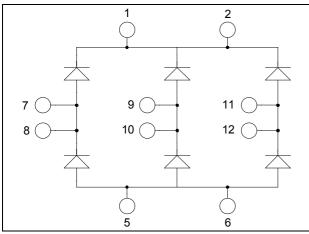






3 Phase rectifier bridge Power Module





ZI

All multiple inputs and outputs must be shorted together 1/2; 5/6; 7/8; 9/10; 11/12

Application

- Input rectifiers for inverter
- Battery DC power supply

Features

- High blocking voltage
- High surge current
- Low leakage current
- Very low stray inductance
 - Symmetrical design
- High level of integration

Benefits

- Solderable terminals for easy PCB mounting
- Direct mounting to heatsink (isolated package)
- Low profile
- RoHS compliant

Absolute maximum ratings

Symbol	Parameter			Max ratings	Unit
V_R	Maximum DC reverse Voltage			1600	V
V_{RRM}	Maximum Peak Repetitive Reverse Voltage			1000	v
I_F	DC Forward Current		$T_C = 80$ °C	90	٨
I_{FSM}	Non-Repetitive Forward Surge Current	t=10ms	$T_J = 45^{\circ}C$	850	А

CAUTION: These Devices are sensitive to Electrostatic Discharge. Proper Handling Procedures Should Be Followed. See application note APT0502 on www.microsemi.com



All ratings @ $T_j = 25$ °C unless otherwise specified

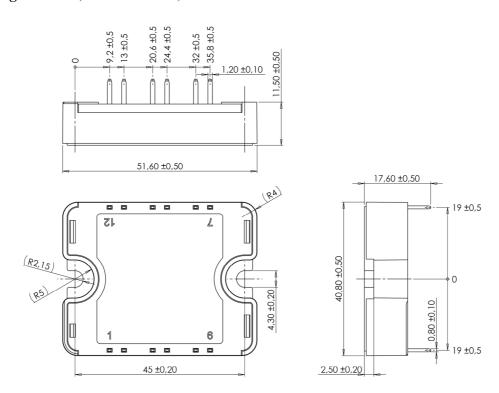
Electrical Characteristics

Symbol	Characteristic	Test Conditions		Min	Typ	Max	Unit
I_R	Reverse Current	$V_{R} = 1600V$	$T_j = 25^{\circ}C$		50		μΑ
			$T_j = 125$ °C		4		mA
$V_{\rm F}$	Forward Voltage	$I_F = 90A$	$T_j = 25$ °C		1.3		V
			$T_j = 125$ °C		1.1		·
V_{T}	On – state Voltage				0.8		V
r_{T}	On – state Slope resistance				4.8		mΩ

Thermal and package characteristics

Symbol	Characteristic			Min	Тур	Max	Unit
R_{thJC}	Junction to Case Thermal Resistance					0.85	°C/W
V _{ISOL}	RMS Isolation Voltage, any terminal to case t = 1 min, 50/60Hz			4000			V
T_{J}	Operating junction temperature range			-40		150	
T_{STG}	Storage Temperature Range			-40		125	°C
$T_{\rm C}$	Operating Case Temperature			-40		100	
Torque	Mounting torque	To heatsink	M4	2		3	N.m
Wt	Package Weight					80	g

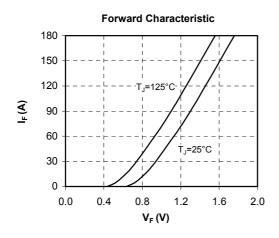
SP1 Package outline (dimensions in mm)

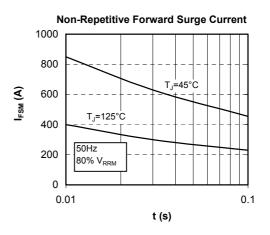


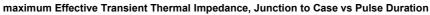
See application note 1904 - Mounting Instructions for SP1 Power Modules on www.microsemi.com

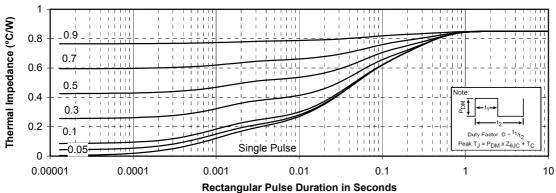


Typical Performance Curve











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