

<u>MBRP3200</u>

Schottky Barrier Rectifier Reverse Voltage 200 V Forward Current 3 A

Features

- Halogen-free package has underwriters
 Laboratory Flammability Classification 94V-0
- Thin package: thickness 1.0mm
- Low forward voltage, high efficiency



Package: POWER QFN5x6

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Mechanical Data

- Case: epoxy, molded
- Weight: 0.1grams (approximately)
- Finish: all external surfaces corrosion resistant and terminal leads readily solderable
- Lead temperature for soldering purpose: 260°C max. for 10 sec
- 3000 pcs/reel

Maximum Ratings & Electrical Characteristics

(TA=25°C unless otherwise noted)

Parameter		Test Conditions		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage				VRRM	200	V
Working Peak Reverse Voltage				VRWM	200	V
Maximum DC Blocking Voltage				VDC	200	V
Maximum Average Forward Rectified Current @ Tc=105°C				lf(AV)	3.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load per Diode				Іғѕм	70	A
Peak repetitive Reverse Current Per Leg at tp=2.0µs ,1KHz				I _{RRM}	0.5	A
Operating Junction Temperature Range				TJ	- 55 to+150	°C
Storage Temperature Range			۲		- 55 to+150	°C
Maximum Instantaneous Forward Voltage per Leg		I⊧=3A I⊧=3A	Tc=25°C Tc=125°C	VF	0.92 0.87	v
Maximum Reverse Current per Leg at Working Peak Reverse Voltage			TJ=25°C TJ=100°C	IR	200 15	μA mA
Thermal C	haracteristics (T _A =25°C unless otherwise noted)	•	•		
Symbol	Parameter	Typ. (POWER QFN5x6)			Unit	
$R_{ extsf{ heta}JC}$	Thermal Resistance, Junction to Case per Leg	2.5			°C/W	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient per Leg	50			°C/W	

Note: Pulse test:300us pulse width, duty cycle=2%

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Ratings and Characteristics Curves (T_A = 25°C unless otherwise noted)

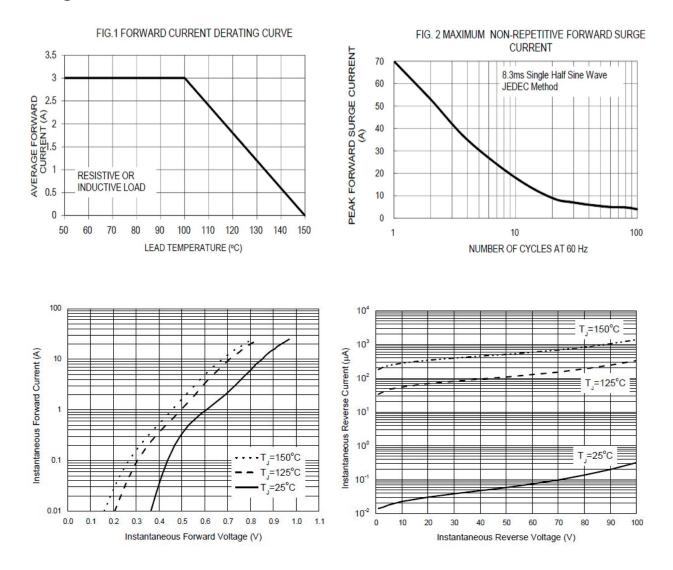


Figure 3. Typical Forward Characteristics

Figure 4. Typical Reverse Characteristics



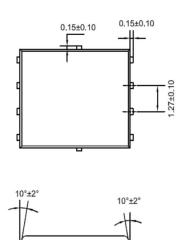
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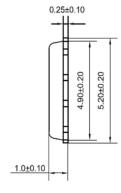
Package Outline Dimensions

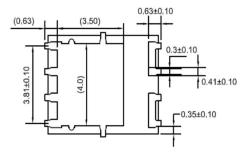
in millimeters

POWER QFN5x6



5,80±0,20 6.10±0.20





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