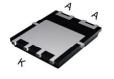


Schottky Barrier Rectifier Reverse Voltage 100 V Forward Current 3 A

Features

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

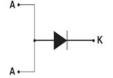




Package: POWER QFN5x6

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



Schematic Diagram

Maximum Ratings & Electrical Characteristics

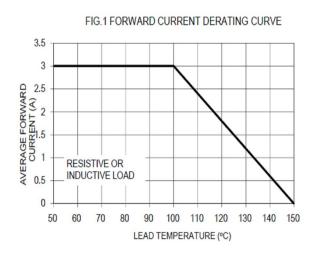
(T_A=25°C unless otherwise noted)

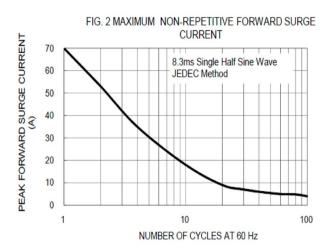
Parameter		Test Conditions		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage				V _{RRM}	100	V
Working Peak Reverse Voltage				VRWM	100	V
Maximum DC Blocking Voltage				VDC	100	V
Maximum Average Forward Rectified Current Total Device Total Device				lf(AV)	3.0	А
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load per Diode				Iгsм	70	А
Peak repetitive Reverse Current Per Leg at tp=2.0µs ,1KHz				I _{RRM}	0.5	А
Operating Junction Temperature Range				TJ	- 55 to+150	°C
Storage Temperature Range				Тѕтс	- 55 to+150	°C
Maximum Instantaneous Forward Voltage per Leg		I=3A I=3A	Tc=25°C Tc=125°C	VF	0.85 0.80	V
Maximum Reverse Current per Leg at Working Peak Reverse Voltage			T _J =25°C T _J =100°C	lR	200 15	μA mA
Thermal C	Characteristics (T _A =25°C unless otherwise noted	l)	•			
Symbol	Parameter	Typ. (POWER QFN5x6)				Unit
$R_{ heta JC}$	Thermal Resistance, Junction to Case per Leg	2.5			°C/W	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient per Leg	50			°C/W	

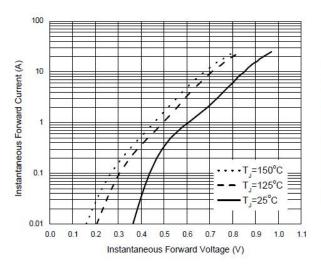
Note: Pulse test:300us pulse width, duty cycle=2%

Schottky Barrier Rectifier Reverse Voltage 100 V Forward Current 3 A

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







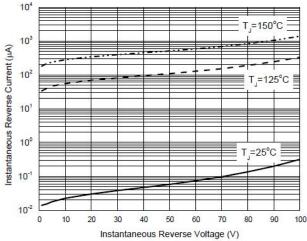


Figure 3. Typical Forward Characteristics

Figure 4. Typical Reverse Characteristics



MBRP3100

Schottky Barrier Rectifier

Reverse Voltage 100 V Forward Current 3 A

Package Outline Dimensions

in millimeters

POWER QFN5x6

