

MBRP10200

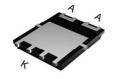
Schottky Barrier Rectifier

Reverse Voltage 200 V Forward Current 10 A

Features

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

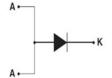




Package: POWER QFN5x6

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)

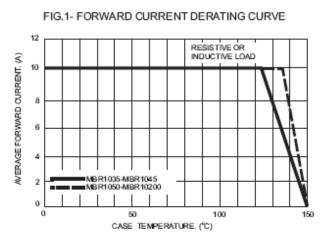
Parameter		Test Conditions		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage				V_{RRM}	200	V
Working Peak Reverse Voltage				VRWM	200	V
Maximum DC Blocking Voltage				VDC	200	V
Maximum Average Forward Rectified Current @ T₀=105°C Total Device				lF(AV)	10	А
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load per Diode				Ігѕм	150	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=10A I=10A	Tc=25°C Tc=125°C	VF	0.90 0.83	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	haracteristics (T _A =25°C unless otherwise noted	l)	1			
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	

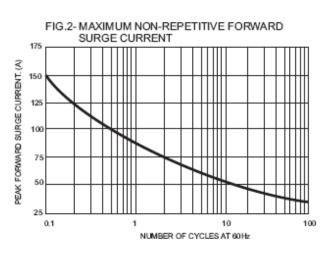
Note: Pulse test:300us pulse width, duty cycle=2%

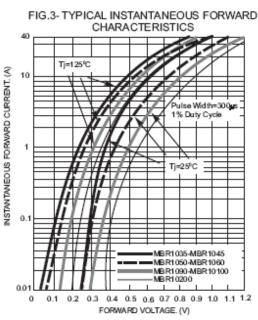


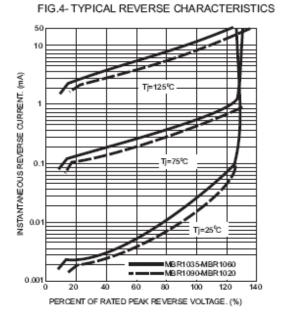
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Ratings and Characteristics Curves (T_A = 25°C unless otherwise noted)

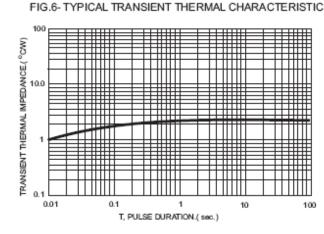


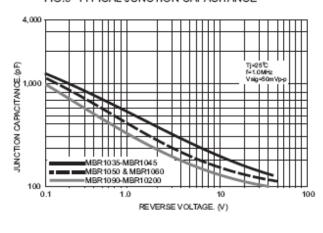














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Package Outline Dimensions

in millimeters

POWER QFN5x6

