

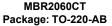
MBR2060CT/MBRF2060CT

Schottky Barrier Rectifier Reverse Voltage 60 V Forward Current 20 A

Features

- Plastic package has underwriters Laboratory
 Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Low forward voltage, high efficiency
- Guarding for over voltage protection







MBRF2060CT Package: ITO-220-AB

Mechanical Data

- Case: epoxy, molded
- Weight: 1.9grams (approximately)
- Finish: all external surfaces corrosion resistant and terminal leads readily solderable
- Lead temperature for soldering purpose: 260°C max. for 10 sec
- 50 units per plastic tube



1. Anode 2.Cathode 3. Anode

Schematic Diagram

°C/W

°C/W

4.0 62.5

Maximum Ratings & Electrical Characteristics

(TA=25°C unless otherwise noted)

Parameter	Test Conditions		Symbo	ol Value	Unit
Maximum Repetitive Peak Reverse Voltage			V_{RRM}	60	V
Working Peak Reverse Voltage			VRWM	60	V
Maximum DC Blocking Voltage			VDC	60	V
Maximum Average Forward Rectified Current Total Device © T₀=105°C Per Diode			lf(AV)	20 10	А
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load per Diode			IFSM	150	Α
Peak repetitive Reverse Current Per Leg at tp=2.0µs ,1KHz			I _{RRM}	1.0	Α
Voltage Rate of Change (rated V _R)			Dv/dt	10000	V/µs
Operating Junction Temperature Range			TJ	- 55 to+150	°C
Storage Temperature Range			Тѕтс	- 55 to+150	°C
Isolation Voltage (ITO-220-AB only) from Terminal to Heatsink t = 1 sec			Vac	1500	V
Maximum Instantaneous Forward Voltage per Leg	I _F =10A	Tc=25°C Tc=125°C	VF	0.80 0.70	V
Maximum Reverse Current per Leg at Working		TJ=25°C		200	μΑ
Peak Reverse Voltage		T _J =100°C	lR	15	mA
Thermal Characteristics (T _A =25°C unless otherwise noted	d)	ı		1	
Symbol Parameter	Тур.(TO-220-AB)	Typ.(ITO-220-AB)	Unit

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

Thermal Resistance, Junction to Case per Leg

Thermal Resistance, Junction to Ambient per Leg

2.0

62.5

 $R_{\theta JC}$

 $R_{\theta JA}$



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

FIG.1- FORWARD CURRENT DERATING CURVE

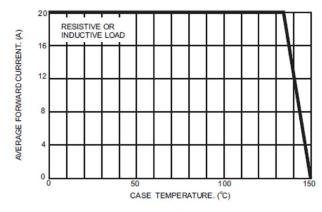


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

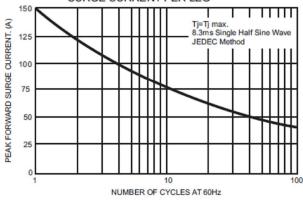


FIG.3- TYPICAL INSTANTANEOUS FORWARD

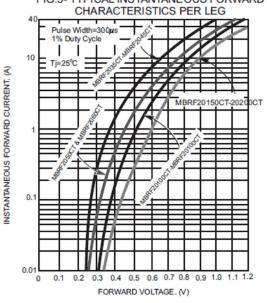


FIG.4- TYPICAL REVERSE CHARACTERISTICS

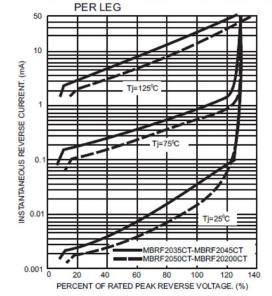


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

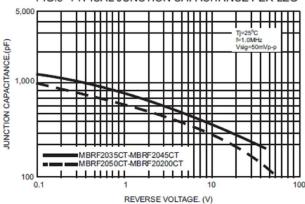
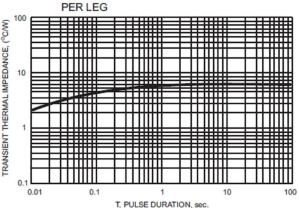


FIG.6- TYPICAL TRANSIENT THERMAL IMPEDANCE





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Package Outline Dimensions

in millimeters

TO-220-AB ITO-220-AB

