

Schottky Barrier Rectifier

Reverse Voltage 60 Volts Forward Current 20 Amperes

Features

Low VF=0.53V at IF=5A (25°C)

Low VF=0.63V at IF=10A (25°C)

- 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





Package: TO-220-AB

Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.9grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 50 units per plastic tube

Maximum Ratings & Electrical Characteristics

(T_A=25°C unless otherwise noted)



1. Anode 2.Cathode 3. Anode

PARAMETER		TEST		SYMBOL		MBR(F)2060CT	UNIT
		CON	DITIONS				
Maximum repetitive peak reverse voltage				VRRM		60	V
Working peak reverse voltage				VRWM		60	V
Maximum DC blocking voltage						60	V
Maximum average forward rectified current at				IF(AV)		20	Α
T _c =105°C total device per diode						10	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode				IFSM		150	А
Peak repetitive reverse current per leg at t _p =2.0us ,1KHz				IRRM		1.0	Α
Voltage rate of change (rated V _R)			Dv/d			10000	V/us
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=10A I=10A	Tc=25℃ Tc=125℃	VF		0.68 0.63	V
Maximum reverse current per leg at working peak Reverse voltage			TJ=25℃ TJ=100°C	lr		100 10	uA mA
	Thermal Characteristics TA	=25℃ un	less otherwi	se note	d		
Symbol	Parameter	TYP (TO-220-AB)		TYP (ITO-220-AB)		ITO-220-AB)	Unit
RθJC	Thermal Resistance, Junction to Case per Leg	2.0	4.0			°C /W	
RθJA	Thermal Resistance, Junction to Ambient per Leg	62.5		6	32.5		°C /W

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



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Ratings and Characteristics Curves

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FIG.1- FORWARD CURRENT DERATING CURVE

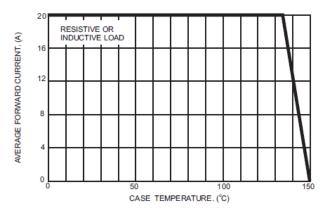


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

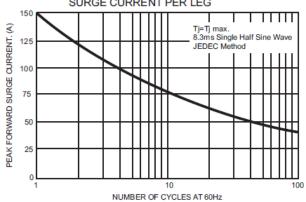


FIG.3- TYPICAL INSTANTANEOUS FORWARD

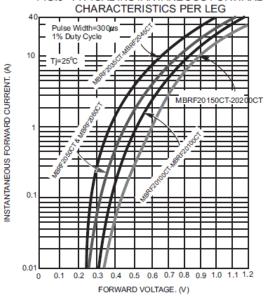


FIG.4- TYPICAL REVERSE CHARACTERISTICS

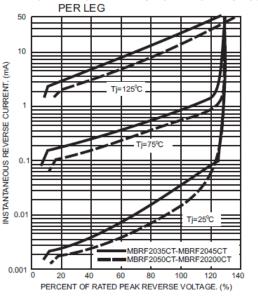


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

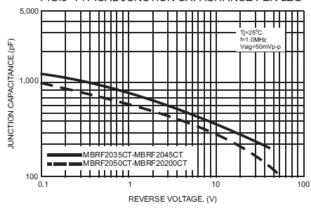
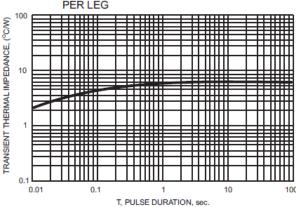


FIG.6- TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG



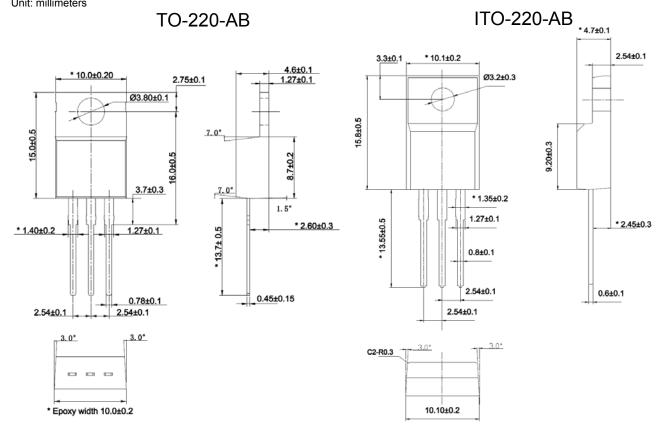


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Package Outline Dimensions

Unit: millimeters





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