

1. Anode 2. Cathode 3. Anode

Schottky Barrier Rectifier

Reverse Voltage 150 Volts Forward Current 20 Amperes

Features

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





Package: ITO-220-AB

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

(TA=25°C unless otherwise noted)

PARAMETER		TEST		SYMBOL		MBR(F)20150CT	UNIT
		CON	DITIONS				
Maximum repetitive peak reverse voltage				VRRM		150	V
Working peak reverse voltage				VRWM		150	V
Maximum DC blocking voltage				VDC		150	V
Maximum average forward rectified current at				IF(AV)		20	Α
T₀=105°C total device per diode						10	
Peak forward surge current 8.3ms single half sine-wave superimposed			IFSM			150	А
on rated load per diode							
Peak repetitive reverse current per leg at tp=2.0us ,1KHz			IRRM			1.0	Α
Voltage rate of change (rated V _R)				Dv/dt		10000	V/us
Operating junction temperature range			TJ			—55 to+150	°C
Storage temperature range			Тэто			—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	.,		0.92	
			Tc=125℃	VF		0.82	V
Maximum reverse current per leg at working peak			TJ=25°C			200	uA
Reverse voltage			T _J =100°C	lR		15	mA
	Thermal Characteristics Ta	= 25℃ unl	ess otherwi	se no	ted		
Symbol	Parameter	TYP (TO		TYP (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		62.5			

 $\textbf{Note:} \ \, \text{Pulse test:} 300 \text{us pulse width, duty cycle=} 2\%$



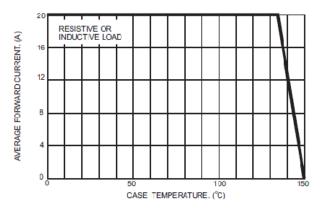
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Ratings and Characteristics Curves

(T_A = 25°C unless otherwise noted)

FIG.1- FORWARD CURRENT DERATING CURVE





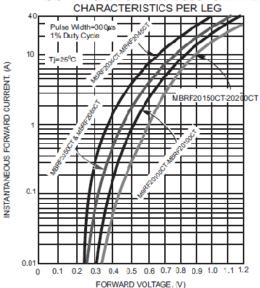


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

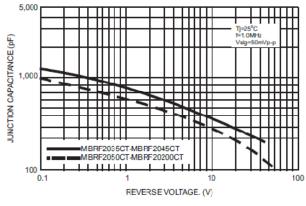


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

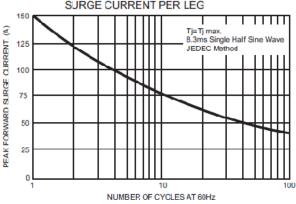


FIG.4-TYPICAL REVERSE CHARACTERISTICS

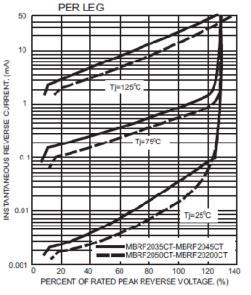
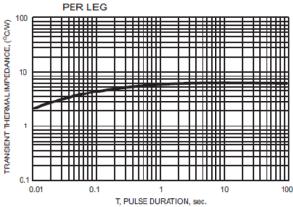


FIG.6- TYPICAL TRANSIENT THERMAL IMPEDANCE



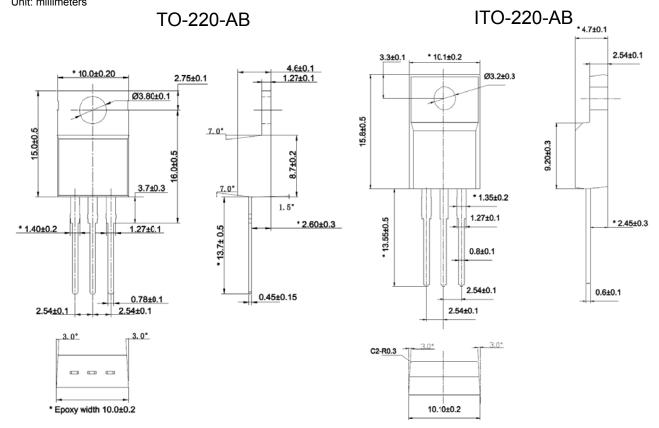


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Package Outline Dimensions

Unit: millimeters





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