

1. Anode 2.Cathode 3. Anode

Schottky Barrier Rectifier

Reverse Voltage 100 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

(T_A=25°C unless otherwise noted)

PARAMETER		TEST		SYMBOL		MBR(F)20100CT	UNIT
		CONI	DITIONS				
Maximum repetitive peak reverse voltage			Vi			100	V
Working peak reverse voltage			VRV			100	V
Maximum DC blocking voltage		\		VDC		100	V
Maximum average forward rectified current at		lF(Ir(AV)		20	Α
T₀=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/dt		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	٧
Maximum instantaneous forward voltage per leg		I=10A	Tc=25°C	,,		0.85	.,
		I=10A	Tc=125℃	VF		0.79	V
Maximum reverse current per leg at working peak			TJ=25℃			200	uA
Reverse voltage			TJ=100°C	l _R		15	mA
	Thermal Characteristics Ta	= 25 ℃ unl	ess otherwi	se not	ed	1	
Symbol	Parameter	TYP (TO-220-AB)			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			

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



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Ratings and Characteristics Curves

(T_A = 25^oC unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

Resistive or Inductive Load

12

8

0

50

100

150

Case Temperature (°C)

Fig. 3 - Typical Instantaneous Forward Characteristics

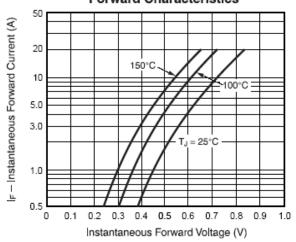


Fig. 5 - Typical Transient Thermal Impedance

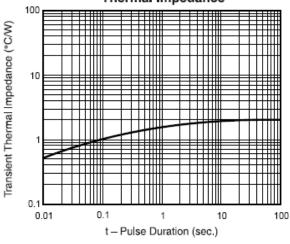


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

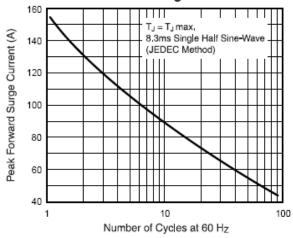
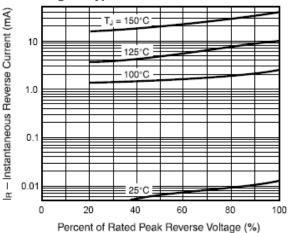


Fig. 4 - Typical Reverse Characteristics



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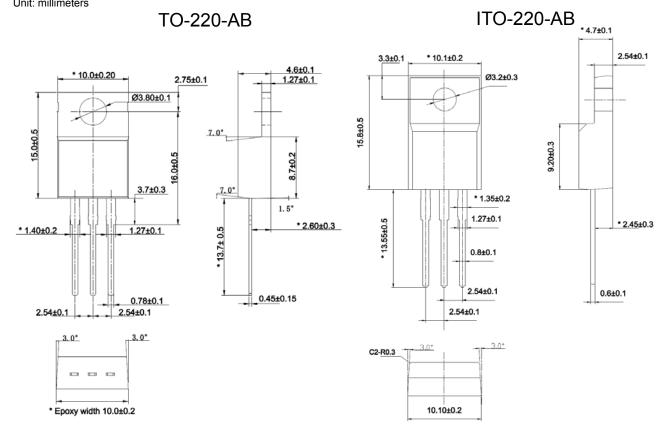


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Package Outline Dimensions

Unit: millimeters





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