

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

(TA=25°C unless otherwise noted)

PARAMETER		TEST CONDITIONS		SYMBOL		MBR(F)20100CT	UNIT
Maximum repetitive peak reverse voltage		3311	CONDITIONS			100	V
Working peak reverse voltage			VF			100	V
Maximum DC blocking voltage				VDC		100	٧
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	Α
Peak repetitive reverse current per leg at t _P =2.0us ,1KHz				IRRM		1.0	Α
Voltage rate of change (rated V _R)		Dv		Dv/dt		10000	V/us
Operating junction temperature range			TJ			—55 to+150	°C
Storage temperature range		Tst		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℃ Tc=125℃	VF		0.85 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℃ un	ess otherwi	se not	ed	1	
Symbol	Parameter	TYP (TO	D-220-AB)		TYP (ITO-220-AB)		Unit
RθJC	Thermal Resistance, Junction to Case per Leg	2.0			4.0		
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

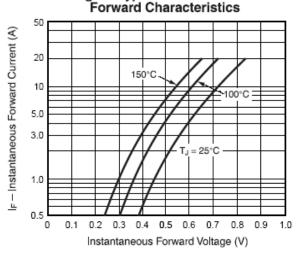


Fig. 5 - Typical Transient Thermal Impedance

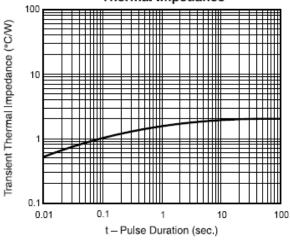


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

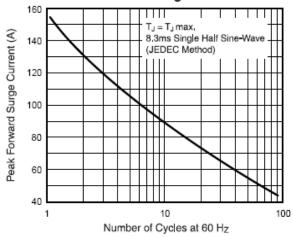
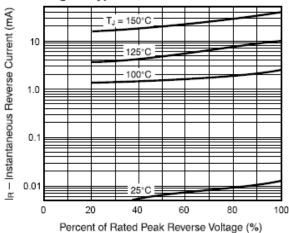


Fig. 4 - Typical Reverse Characteristics



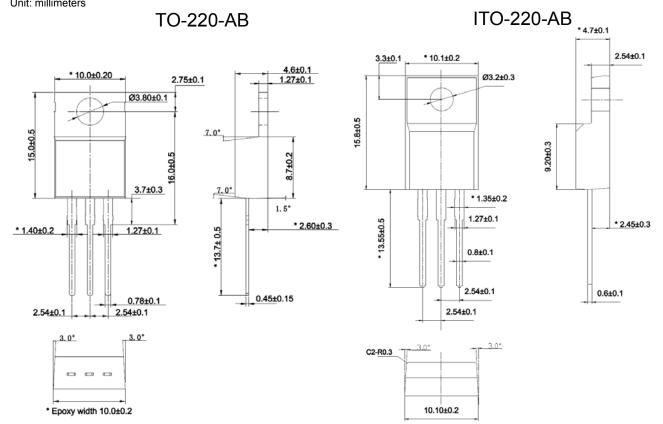


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Package Outline Dimensions

Unit: millimeters





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