

1. Anode 2.Cathode 3. Anode

Schottky Barrier Rectifier

Reverse Voltage 100 Volts Forward Current 10 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		SYN	/IBOL	MBR(F)10100CT	UNIT
		CON	DITIONS				
Maximum repetitive peak reverse voltage				VRRM		100	V
Working peak reverse voltage			VRV			100	V
Maximum DC blocking voltage				VDC		100	V
Maximum average forward rectified current at		1		Ir(AV)		10	Α
Tc=105°C total device per diode						5	
Peak forward surge current 8.3ms single half sine-wave superimposed			IFSM			120	Α
on rated load per diode						120	
Peak repetitive reverse current per leg at tp=2.0us ,1KHz			IRRM			1.0	Α
Voltage rate of change (rated V _R)		Dv/d		Dv/dt	0v/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=5A	Tc=25℃	,,		0.85	. ,
		I=5A	Tc=125℃	VF		0.75	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	less otherwi	se not	ed		1
Symbol	Parameter	TYP (T	O-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%

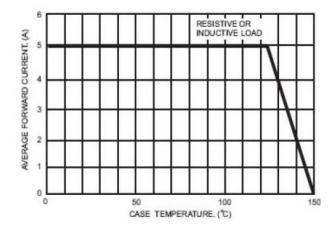


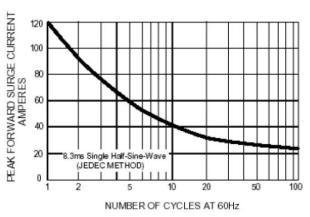
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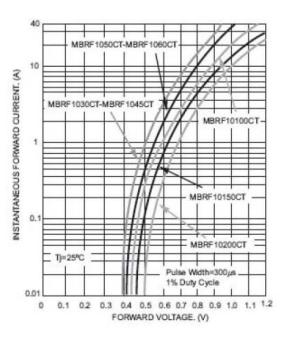
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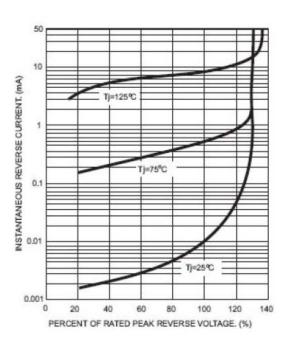
Ratings and Characteristics Curves

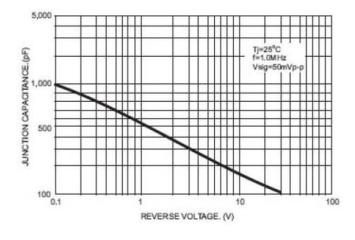
(T_A = 25^oC unless otherwise noted)

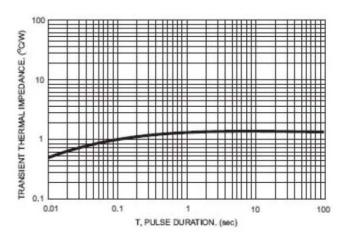












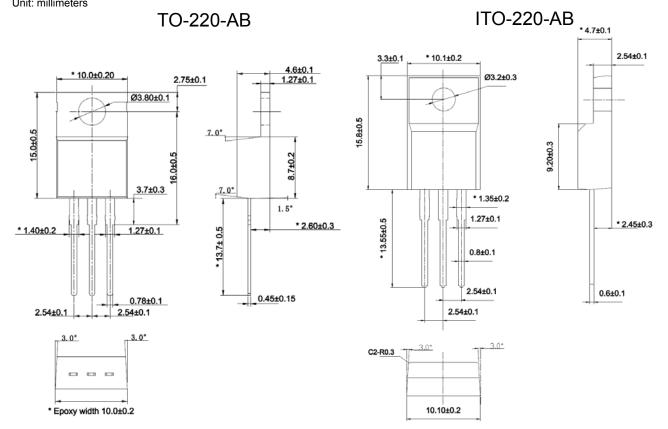


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Package Outline Dimensions

Unit: millimeters





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