

Trench Schottky Barrier Rectifier Reverse Voltage 200 Volts Forward Current 10 Amperes

Features

Ultra Low VF=0.69V at IF=1A (25°C) Ultra Low V_F=1.01V at IF=5A (25°C)

- Low forward voltage drop, low power losses
- High efficiency operation
- Plastic package has underwriters Laboratory Flammability Classification 94V-0







Package: ITO-220-AB SBRF10200CT

Package: TO-220-AB SBR10200CT

Package: TO-263 SBRB10200CT

Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.9grams(TO220/ITO220),1.40grams(TO263) (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 or tape reel packing 800/reel(TO263)

1. Anode 2. Cathode 3. Anode

Maximum Ratings & Electrical Characteristics

(TA=25°C unless otherwise noted)

PARAMETER		TEST		SYMBOL	OL SBR(X)10200CT	UNIT
		CON	IDITIONS			
Maximum repetitive peak reverse voltage				VRRM	200	V
Working peak reverse voltage				VRWM	200	V
Maximum DC blocking voltage				VDC	200	V
Maximum average forward rectified current at				IF(AV)	10	Α
T _c =105°C total device/ per diode					5	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode				IFSM	120	А
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				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		IF=5A IF=5A	Tc=25℃ Tc=125℃	VF	1.15(1.01TYP) 1.0	V
Maximum reverse current per leg at working peak Reverse voltage			TJ=25°C TJ=100°C	lr	200 15	uA mA
	Thermal Characteristics Ta	= 25 ℃ un	less otherw	ise noted	·	<u> </u>
Symbol	Parameter	TYP (TO-220-AB/TO263			TYP (ITO-220-AB)	Unit
RθJC	Thermal Resistance, Junction to Case per Leg	2.0			4.0	

Symbol	Parameter	TYP (TO-220-AB/TO263)	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	°C /W

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

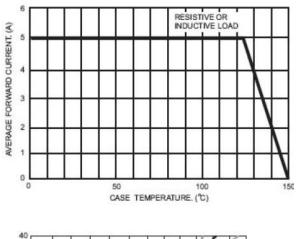


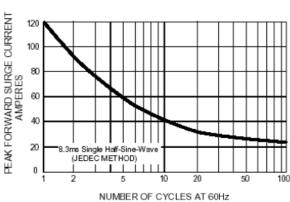
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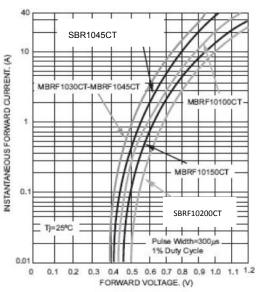
Reverse Voltage 200 Volts Forward Current 10 Amperes

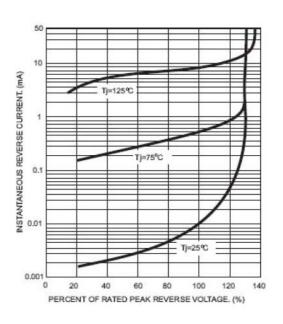
Ratings and Characteristics Curves

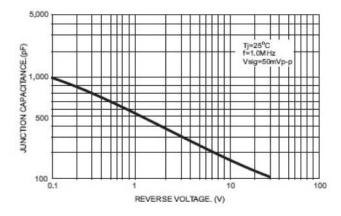
(TA = 25°C unless otherwise noted)

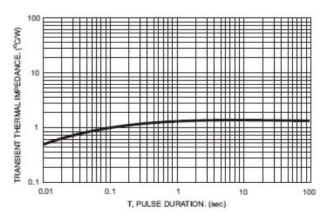














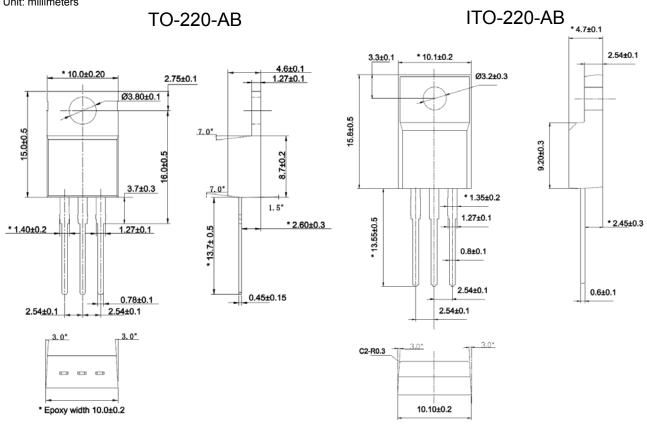
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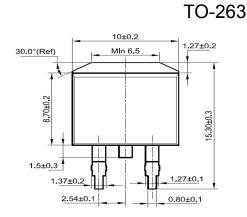
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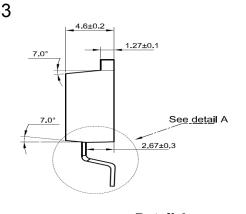
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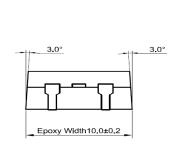
Package Outline Dimensions

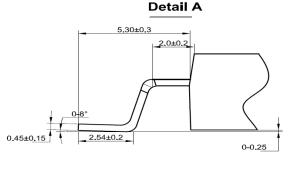
Unit: millimeters















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