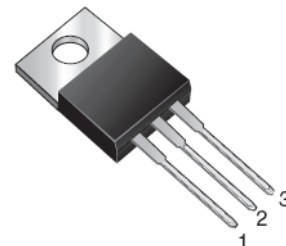


20A Schottky Barrier Rectifiers

Features

- Low power loss, high efficiency.
- High current capability
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- Metal silicon junction, majority carrier conduction
- RoHS compliant



TO-220



Mechanical Data

Case:	TO-220, molded plastic body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity	As marked
Mounting Position:	Any
Weight:	0.0655 ounces, 1.859 grams

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	MBR2080CT	MBR2090CT	MBR20100CT	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	80	90	100	V	
V_{RWM}	Maximum Working Peak Reverse Voltage	80	90	100	V	
V_R	Maximum DC Blocking Voltage	80	90	100	V	
V_R (RMS)	RMS Reverse Voltage	56	63	70	V	
I_{F(AV)}	Maximum Average Forward Rectified Current	20			A	See Fig.1
I_{FSM}	Peak Forward Surge Current	200			A	8.3ms single half sine-wave superimposed on rated load(JEDEC method)
T_J	Operating Junction Temperature Range	-65 to +175			°C	
T_{STG}	Storage Temperature Range					

20A Schottky Barrier Rectifiers

MBR2080CT - MBR20100CT

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	MBR2080CT	MBR2090CT	MBR20100CT	Unit	Conditions
V_F	Maximum Forward Voltage per Diode	0.8			V	$I_F=10A$
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	0.05			mA	$T_j=25^{\circ}C$
		20				$T_j=125^{\circ}C$
$R_{\theta JC}$	Typical Thermal Resistance	2			$^{\circ}C/W$	

Note: Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

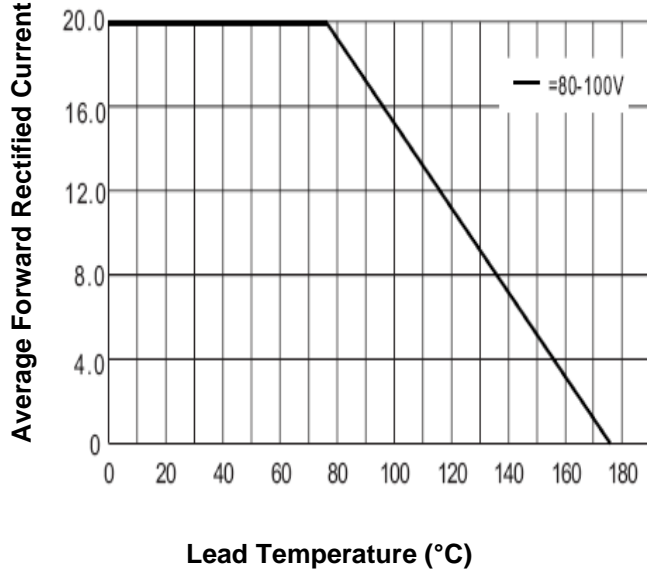
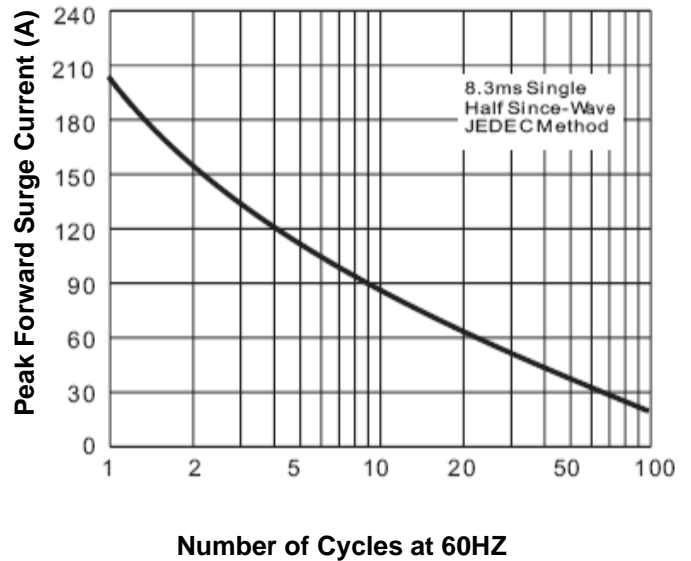


Fig.2- Maximum Non-Repetitive Surge Current



20A Schottky Barrier Rectifiers

MBR2080CT - MBR20100CT

Fig.3- Typical Reverse Characteristics

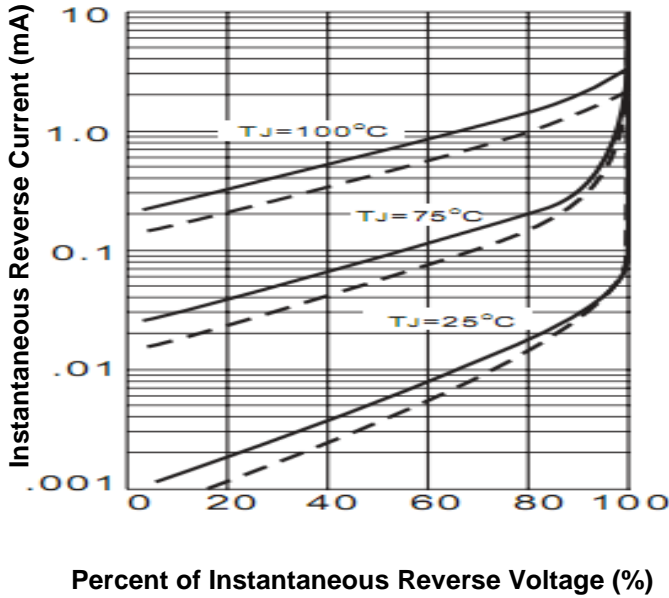
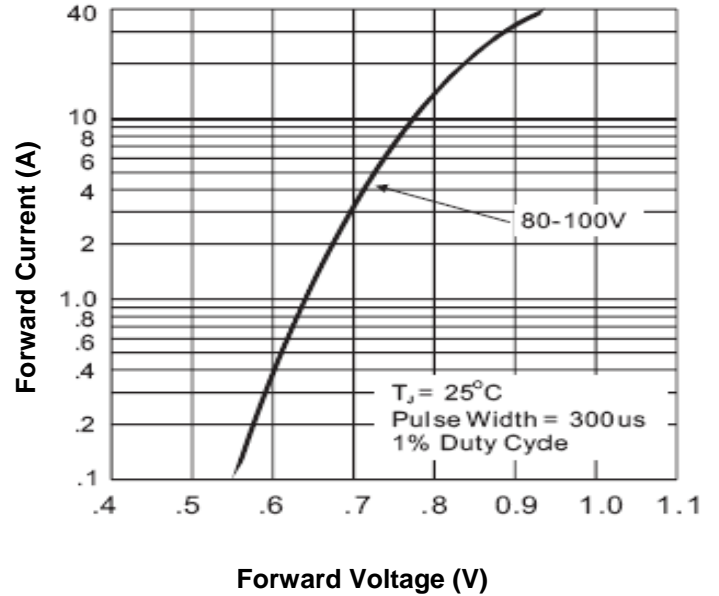
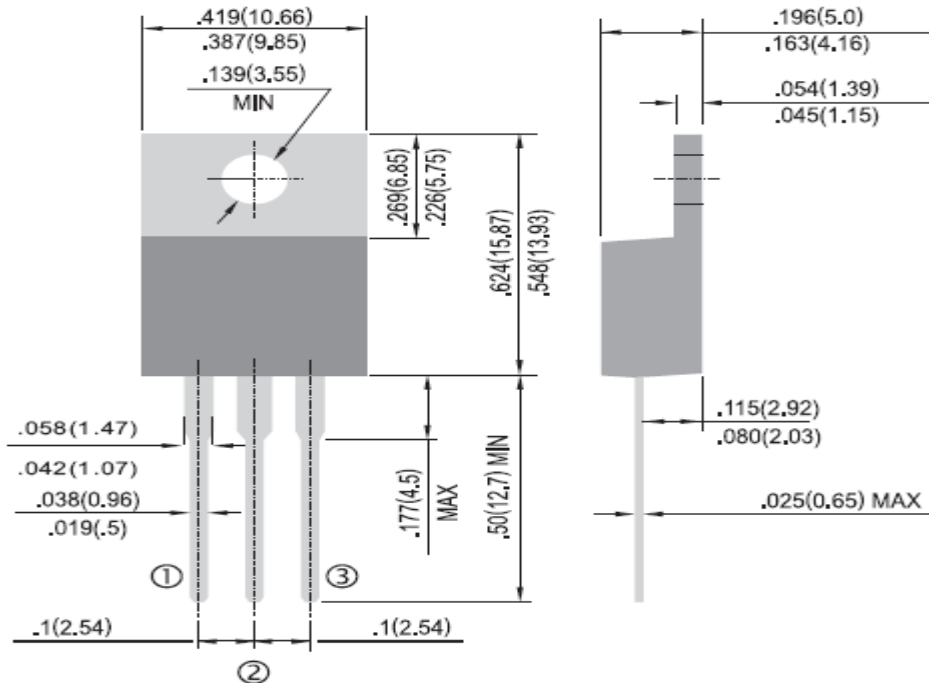


Fig.4- Typical Instantaneous Forward Characteristics



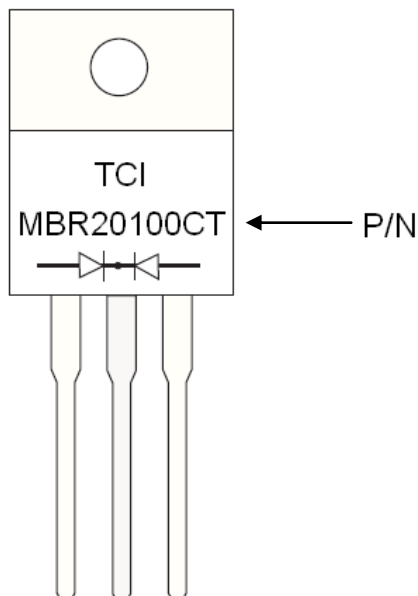
Dimensions in inches (mm)



TO220

TAITRON
components incorporated

Marking Information:



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