Zibo Seno Electronic Engineering Co., Ltd.



MBR1640CT - MBR16200CT





16.0A SCHOTTKY BARRIER DIODE

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

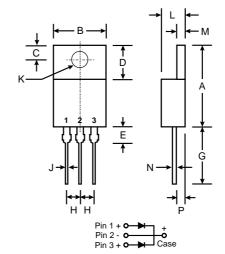
Case: TO-220AB, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: See DiagramMounting Position: Any

Lead Free: For RoHS / Lead Free Version



TO-220AB							
Dim	Min	Max					
Α	14.22	15.88					
В	9.57	10.57					
С	2.54	3.43					
D	5.80	6.80					
E		6.35					
G	12.70	14.73					
Н	2.29	2.79					
J	0.51	1.14					
K	3.53Ø	4.14Ø					
L	3.56	4.83					
М	1.07	1.47					
N	0.30	0.64					
Р	2.03	2.92					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Characteristic		Symbol	MBR 1640 CT	MBR 1645 CT	MBR 1650 CT	MBR 1660 CT	MBR 16100 CT	MBR 16150 CT	MBR 16200 CT	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	40	45	50	60	100	150	200	V
RMS Reverse Voltage		VR(RMS)	28	31	35	42	70	105	140	V
Average Rectified Output Current (Note 1)	T _L = 75° C	lo	16.0						А	
Non-Repetitive Peak Forward Surge C Single half sine-wave superimposed o (JEDEC Method)		İFSM	120					А		
Forward Voltage	@I _F = 8A	VFM	0.7	70	0.80		0.85	0.92		V
	@T _A = 25°C @T _A = 100°C	IRM	0.1 20							mA
Typical Junction Capacitance (Note 2)		Cj	350 280 200			pF				
Typical Thermal Resistance (Note 1)		R_{θ} JA	3.5 2.0			°C/W				
Operating and Storage Temperature R	ange	Тj, Tsтg	-55 to +150 -55 to +175		+175	°C				

Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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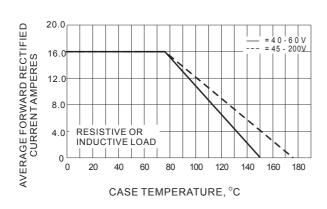


Fig.1- FORWARD CURRENT DERATING CURVE

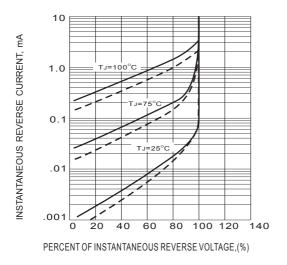


Fig.3- TYPICAL REVERSE CHARACTERISTICS

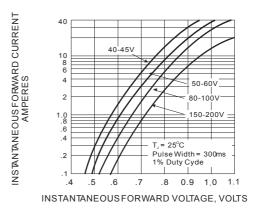


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

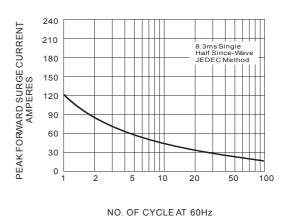


Fig.4- MAXIMUM NON - REPETITIVE SURGE **CURRENT**