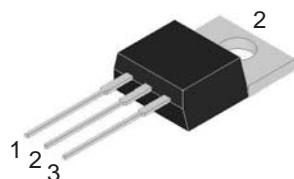
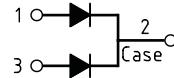


## 16.0 Amp. Schottky Barrier Rectifier

TO-220AB	<b>Voltage</b> 20 to 150 V	<b>Current</b> 16.0 A
  Common Cathode Suffix "C"	<ul style="list-style-type: none"> <li>• Low power loss, high efficiency.</li> <li>• High current capability, Low VF.</li> <li>• High reliability</li> <li>• High surge current capability.</li> <li>• Epitaxial construction.</li> <li>• Guard-ring for transient protection.</li> <li>• For use in low voltage, high frequency inverter, free wheeling, and polarity protection application</li> </ul>	
<b>Mechanical Data</b> <ul style="list-style-type: none"> <li>• Cases: TO-220AB molded plastic</li> <li>• Epoxy: UL 94V-0 rate flame retardant</li> <li>• Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed</li> <li>• Polarity: As marked</li> <li>• High temperature soldering guaranteed: 260°C/10 seconds, 6.35mm from case</li> <li>• Weight: 2.24 grams</li> </ul>		

### Absolute Maximum Ratings, according to IEC publication No. 134

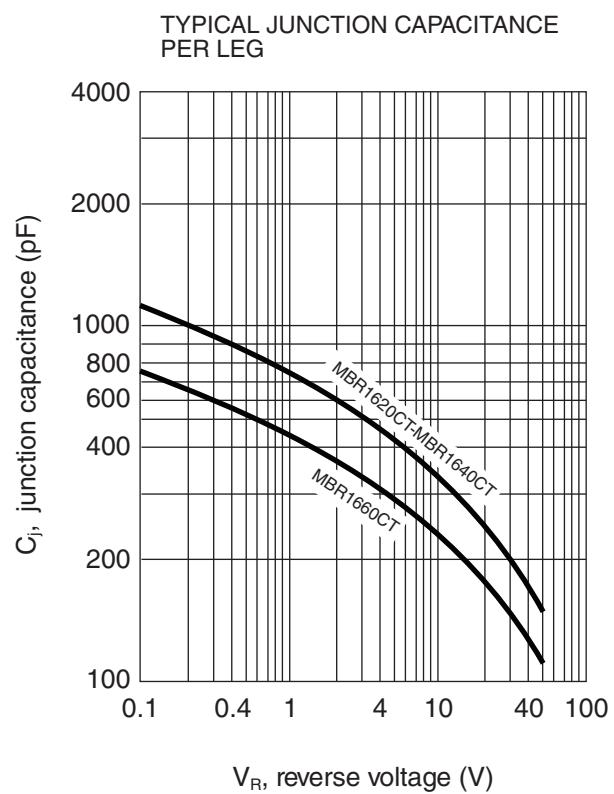
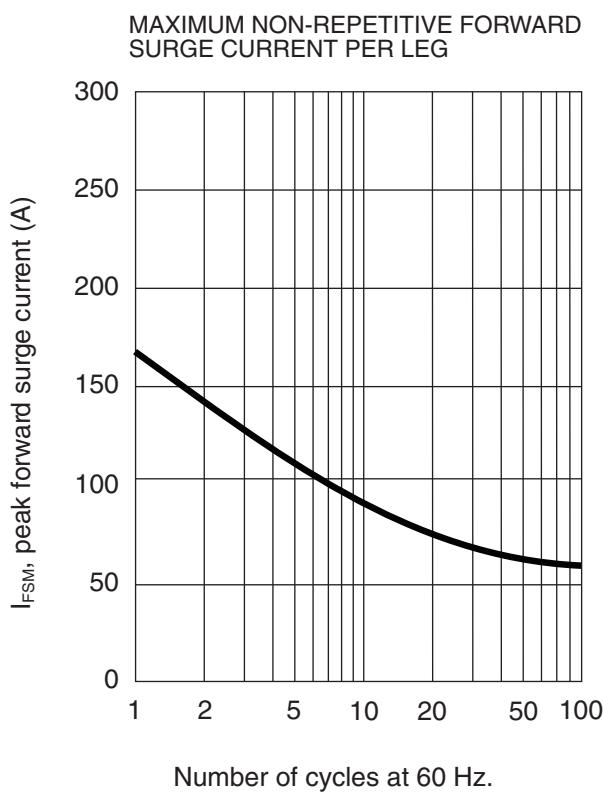
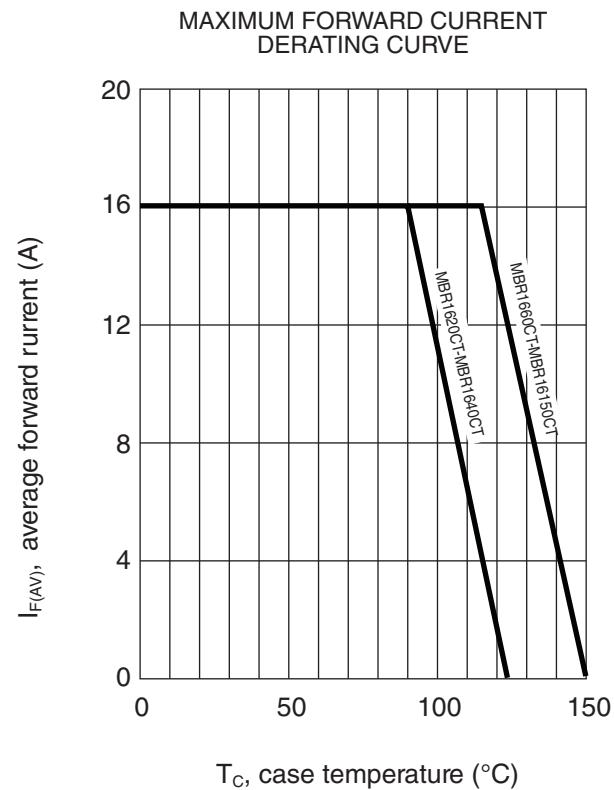
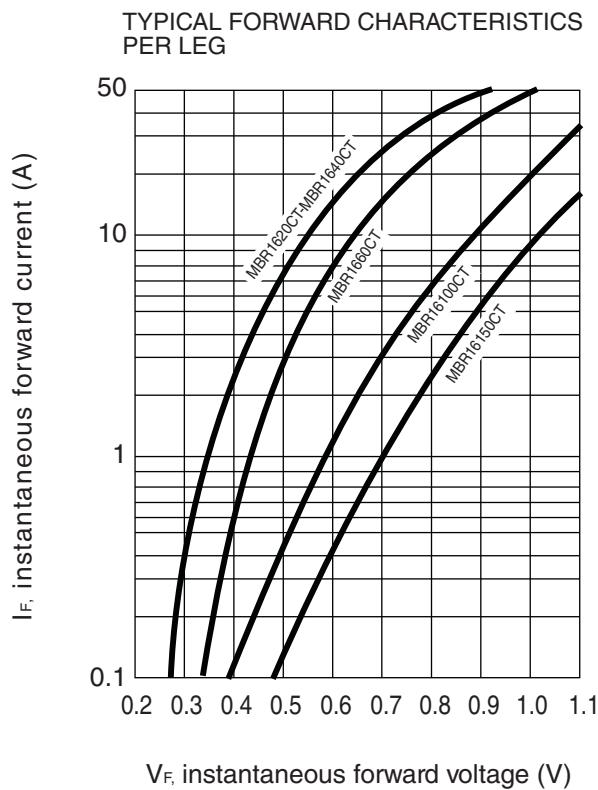
		<b>MBR 1620CT</b>	<b>MBR 1640CT</b>	<b>MBR 1660CT</b>	<b>MBR 16100CT</b>	<b>MBR 16150CT</b>
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	20	40	60	100	150
$V_{RMS}$	Maximum RMS Voltage (V)	14	28	42	70	105
$V_{DC}$	Maximum DC blocking voltage (V)	20	40	60	100	150
$I_F (AV)$	Maximum Average Forward Rectified Current See Fig.	16 A				
$I_{FSM}$	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	150 A				
$C_j$	Typical Junction Capacitance at 1MHz and Applied Reverse Voltage of 4.0V D.C.	440 pF		320 pF		
$T_j$	Operating Junction Temperature Range	– 65 to + 125 °C			– 65 to + 150 °C	
$T_{stg}$	Storage Temperature Range	– 65 to + 150 °C				

### Electrical Characteristics

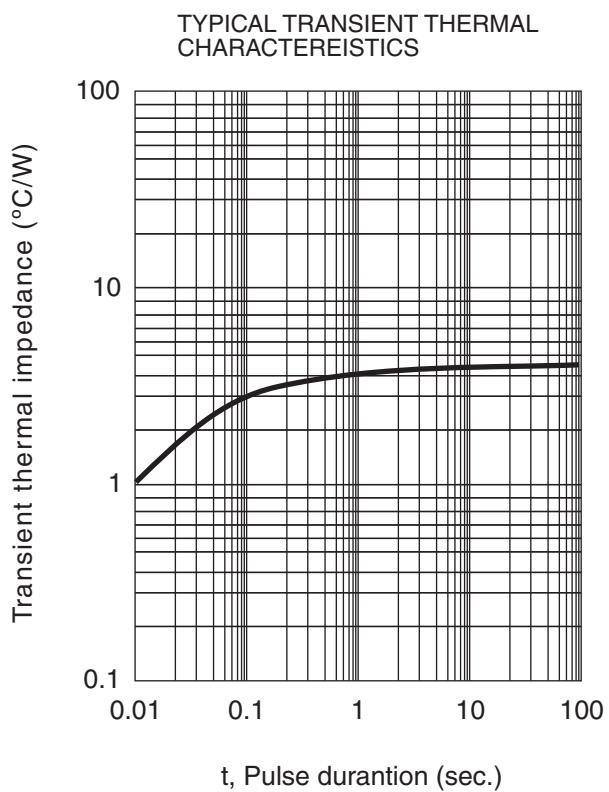
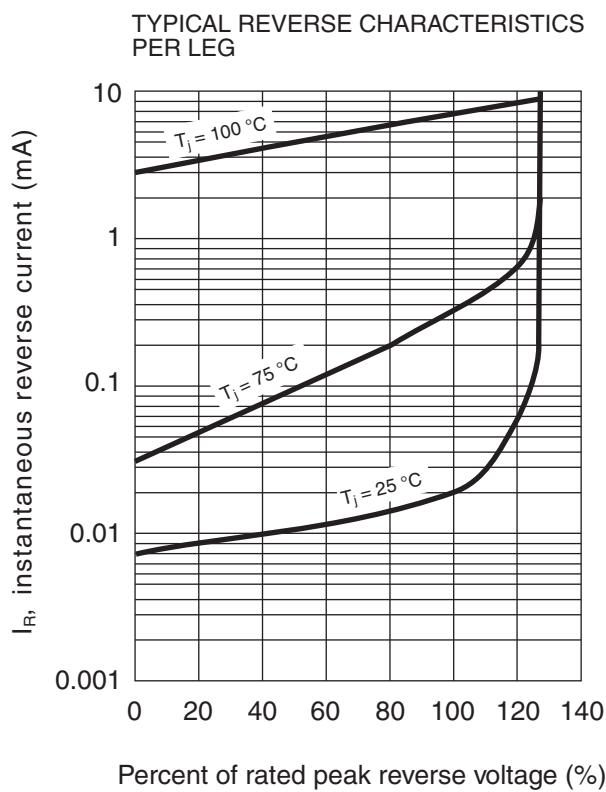
		<b>MBR 1620CT</b>	<b>MBR 1640CT</b>	<b>MBR 1660CT</b>	<b>MBR 16100CT</b>	<b>MBR 16150CT</b>
$V_F$	Maximum Instantaneous Forward Voltage @ 8.0 A	0.55 V		0.70 V	0.90 V	1.05 V
$I_R$	Maximum D.C. Reverse Current @ $T_C=25^\circ\text{C}$	0.5 mA		0.1 mA		
	at Rated DC Blocking Voltage @ $T_C=100^\circ\text{C}$	15 mA	10 mA	5 mA		
$R_{thj-c}$	Typical Thermal Resistance (Note 1)	2.5 °C/W				

Notes: 1. Mounted on Heatsink Size of 50.4 mm x 76.2 mm x 6.35 mm Al-Plate.

## Rating And Characteristic Curves

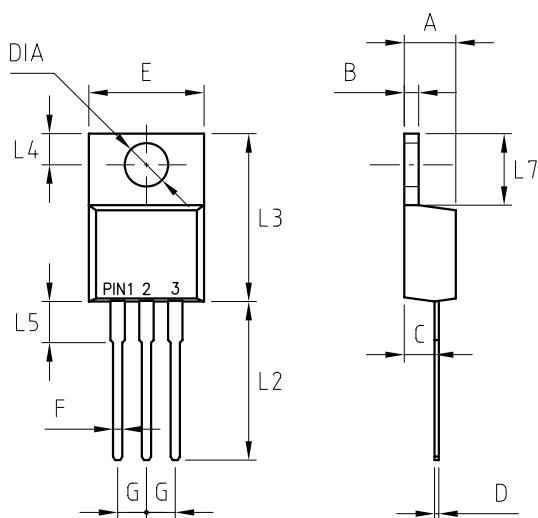


## Rating And Characteristic Curves



## PACKAGE MECHANICAL DATA

TO-220AB



REF.	DIMENSIONS	
	Millimeters	
	Min.	Max.
A	4.44	4.70
B	1.14	1.40
C	2.54	2.79
D	0.35	0.64
E	--	10.5
F	0.68	0.94
G	2.41	2.67
L2	13.46	14.22
L3	14.90	15.10
L4	2.62	2.87
L5	3.56	4.06
L7	5.84	6.86
DIA	3.91	3.74