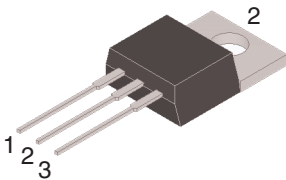
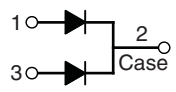


20 Amp. Schottky Barrier Rectifier

TO-220AB   Common Cathode Suffix "C"	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Voltage 45 to 200 V</td><td style="text-align: center;">Current 20 A</td></tr> <tr> <td colspan="2"> • Metal silicon junction, majority carrier conduction • High current capability • The plastic material U/L recognition 94 V-0 • Terminals: Leads solderable per MIL-STD202 • Low forward Voltage drop </td></tr> </table>	Voltage 45 to 200 V	Current 20 A	• Metal silicon junction, majority carrier conduction • High current capability • The plastic material U/L recognition 94 V-0 • Terminals: Leads solderable per MIL-STD202 • Low forward Voltage drop	
Voltage 45 to 200 V	Current 20 A				
• Metal silicon junction, majority carrier conduction • High current capability • The plastic material U/L recognition 94 V-0 • Terminals: Leads solderable per MIL-STD202 • Low forward Voltage drop					

Absolute Maximum Ratings, according to IEC publication No. 134

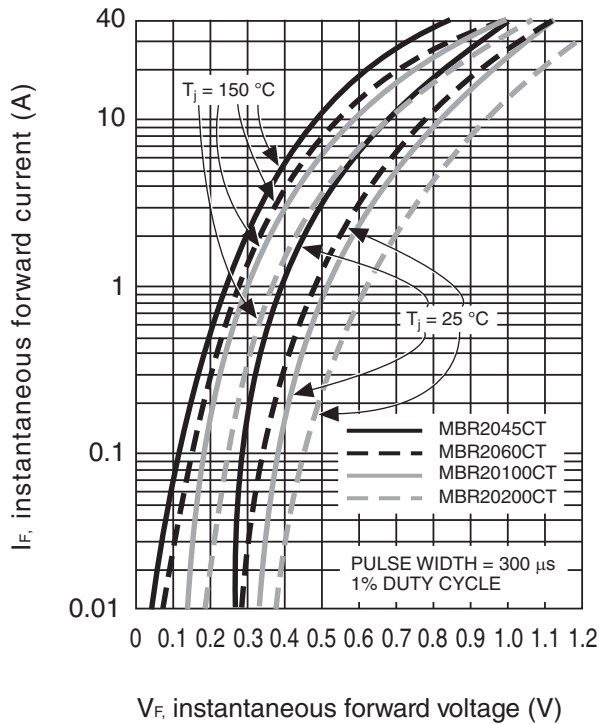
		MBR2045CT	MBR2060CT	MBR20100CT	MBR20200CT
V _{RRM}	Peak recurrent reverse voltage (V)	45	60	100	200
V _{RMS}	Maximum RMS voltage (V)	31	42	70	140
V _{DC}	Maximum DC blocking voltage (V)	45	60	100	200
I _{F (AV)}	Maximum average Forward current at T _C = 135 °C (both diodes conducting)	20 A			
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	150 A			
I _{RRM}	Peak repetitive reverse surge current	1.0 A	0.5 A		
T _j	Operating temperature range	– 65 to + 150 °C			
T _{stg}	Storage temperature range	– 65 to + 175 °C			

Electrical Characteristics

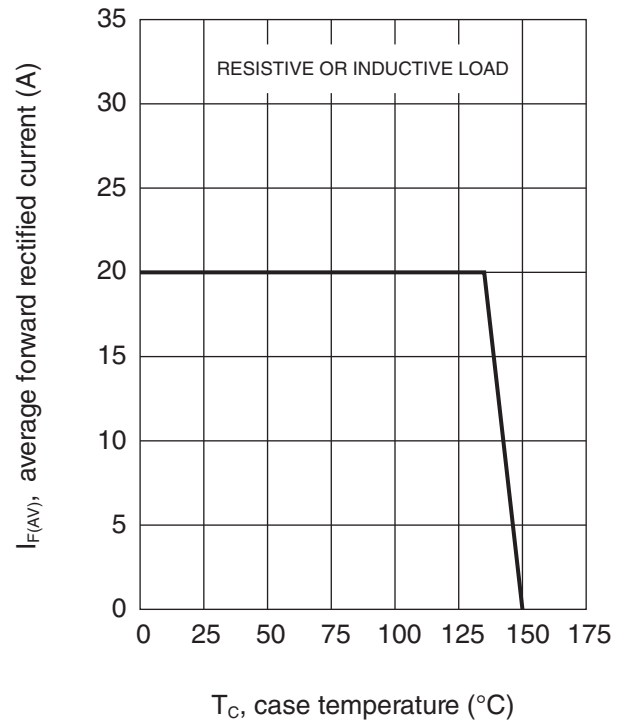
			MBR2045CT	MBR2060CT	MBR20100CT	MBR20200CT
V_F	Max. forward voltage drop at $I_F = 10\text{ A}$	$T_j = 25\text{ °C}$	--	0.80 V	0.85 V	0.90 V
		$T_j = 125\text{ °C}$	0.57 V	0.70 V	0.75 V	0.87 V
	Max. forward voltage drop at $I_F = 20\text{ A}$	$T_j = 25\text{ °C}$	0.84 V	0.95 V	0.95 V	1.23 V
		$T_j = 125\text{ °C}$	0.72 V	0.85 V	0.85 V	1.10 V
I_R	Max. Instantaneous reverse current at $V_R = V_{RRMax}$	$T_j = 25\text{ °C}$	0.10 mA			
		$T_j = 125\text{ °C}$	15.0 mA	10.0 mA	5.0 mA	0.15 mA
R_{thj-c}	Typical Thermal Resistance		1.0 °C/W		2.0 °C/W	

20 Amp. Schottky Barrier Rectifier

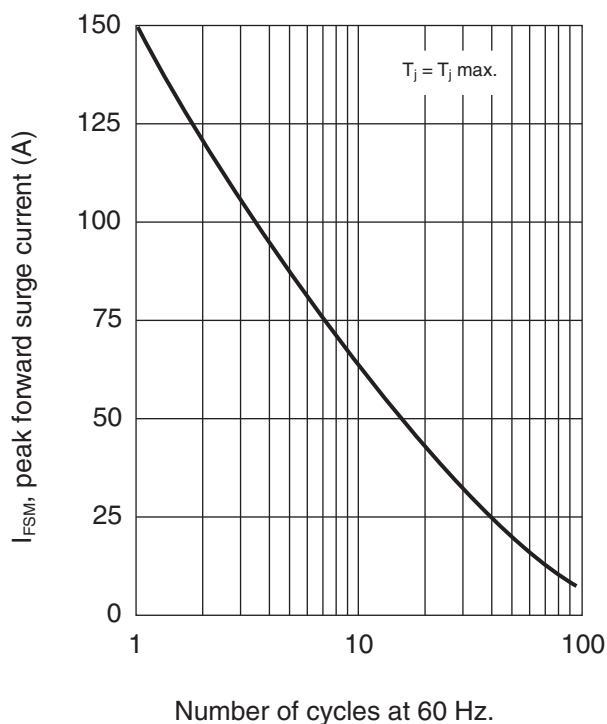
TYPICAL FORWARD CHARACTERISTIC



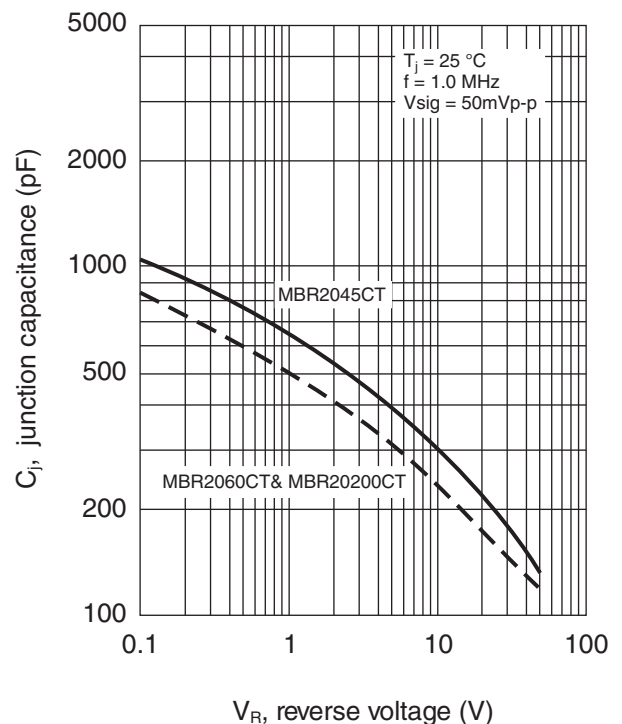
FORWARD CURRENT DERATING CURVE



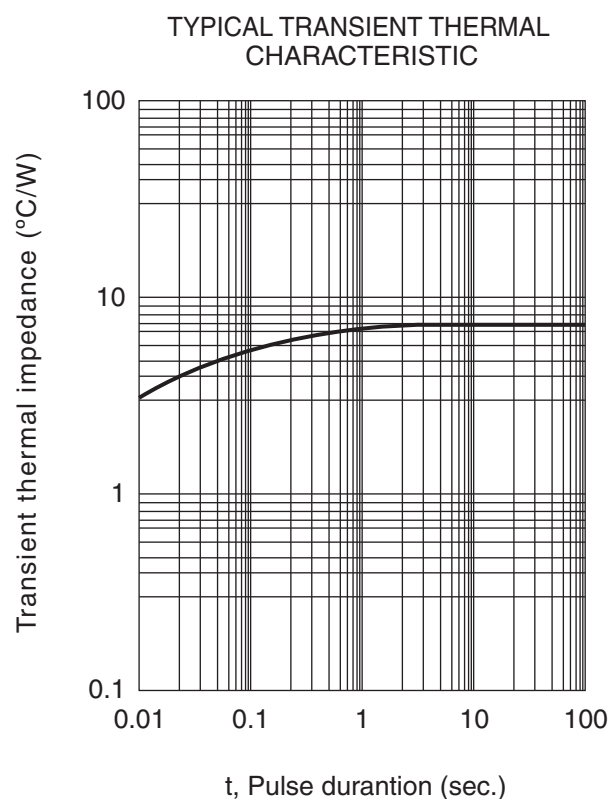
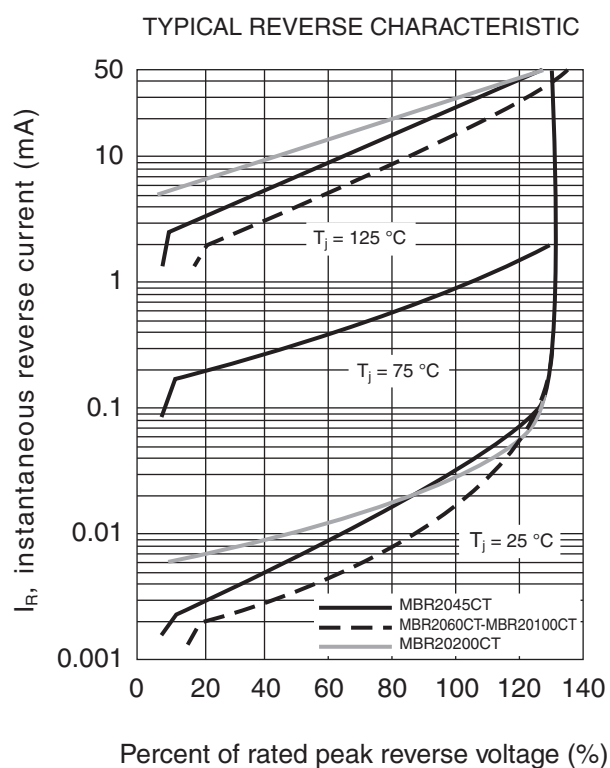
MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

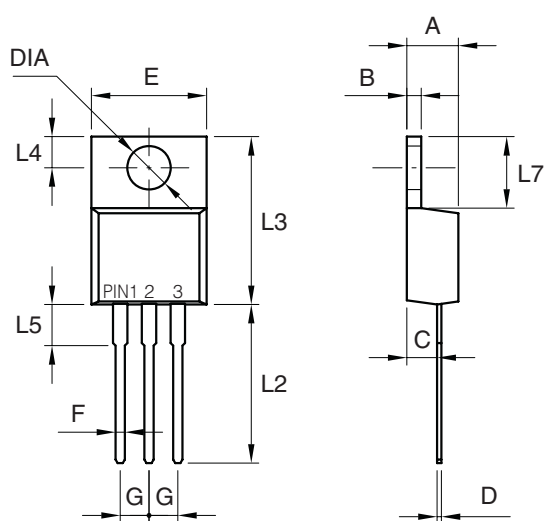


20 Amp. Schottky Barrier Rectifier



PACKAGE MECHANICAL DATA

TO-220AB



REF.	DIMENSIONS	
	Milimeters	
	Min.	Max.
A	4.44	4.70
B	1.14	1.40
C	2.54	2.79
D	0.35	0.64
E	--	10.50
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	3.74	3.91