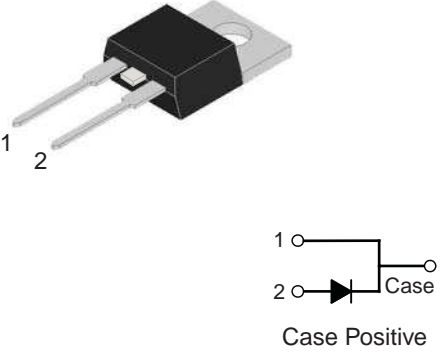


10 Amp. Schottky Barrier Rectifier

TO-220AC 	Voltage 45 to 200 V	Current 10 A
	<ul style="list-style-type: none"> • Metal silicon junction, majority carrier conduction • High current capability • The plastic material carries U/L recognition 94 V-0 • Terminals: Leads solderable per MIL-STD202 • Low forward Voltage drop 	

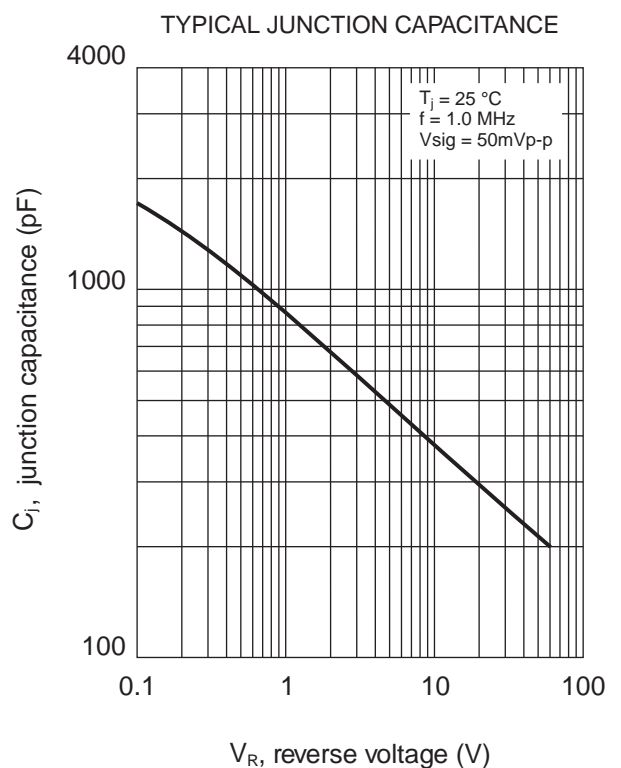
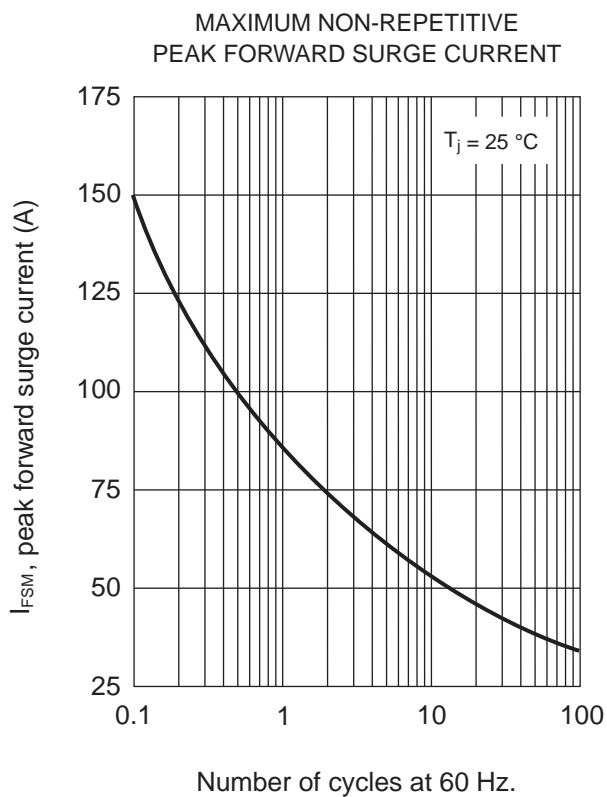
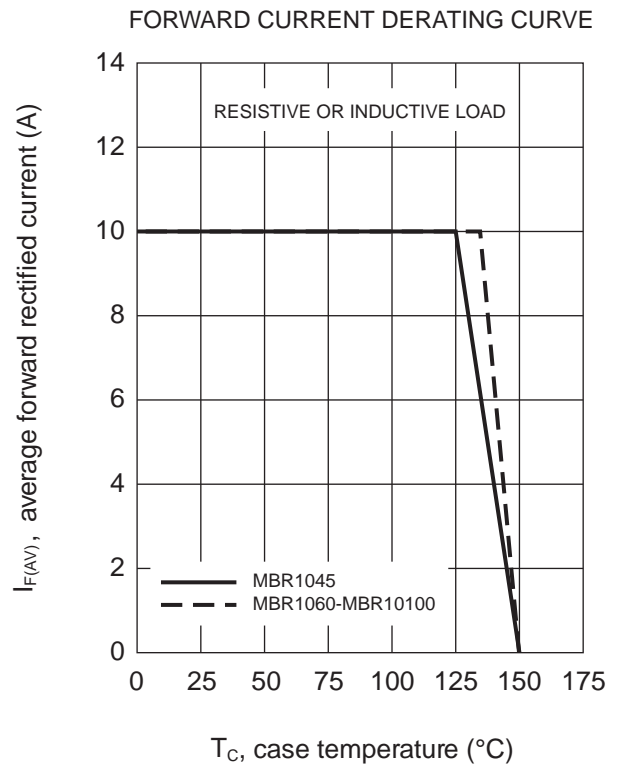
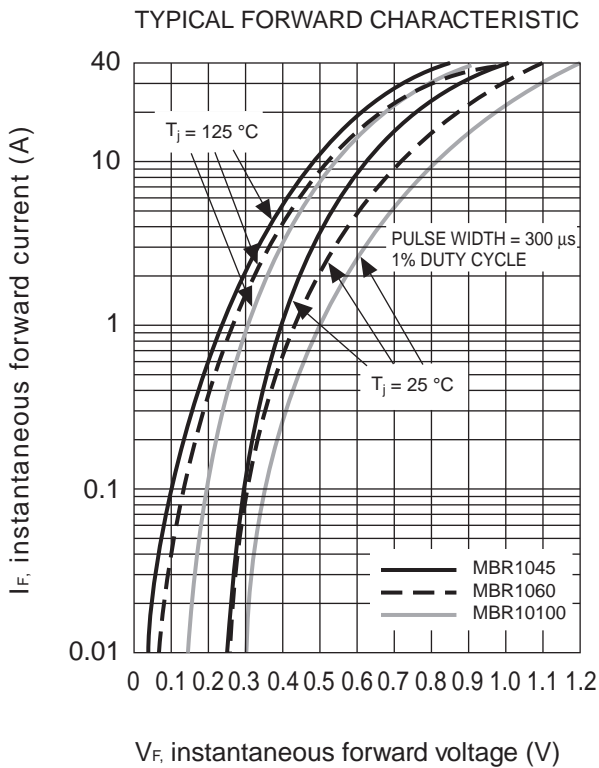
Absolute Maximum Ratings, according to IEC publication No. 134

		MBR1045	MBR1060	MBR10100
V_{RRM}	Peak recurrent reverse voltage (V)	45	60	100
V_{RMS}	Maximum RMS voltage (V)	31	42	70
V_{DC}	Maximum DC blocking voltage (V)	45	60	100
$I_{F(AV)}$	Maximum average Forward current at $T_C = 125\text{ °C}$	10 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

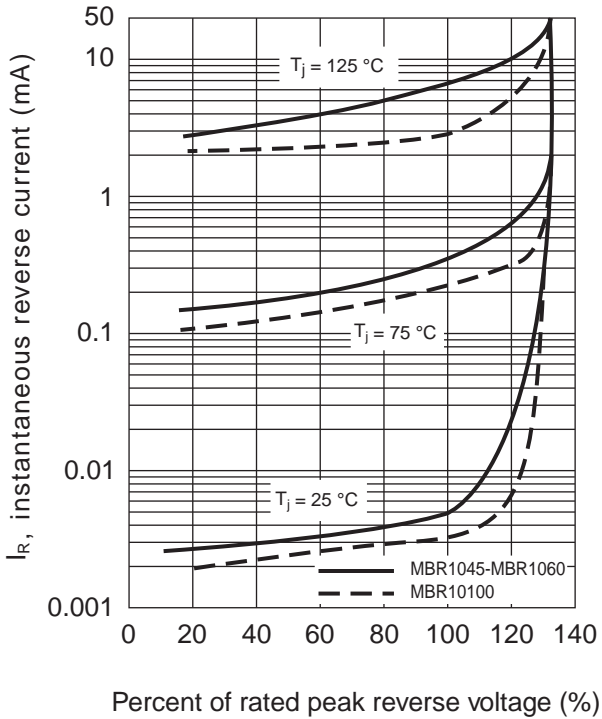
		MBR1045	MBR1060	MBR10100	
V_F	Max. forward voltage drop at $I_F = 10\text{ A}$	$T_C = 25\text{ °C}$	0.70 V	0.80 V	0.85 V
		$T_C = 125\text{ °C}$	0.57 V	0.70 V	0.71 V
	Max. forward voltage drop at $I_F = 20\text{ A}$	$T_C = 25\text{ °C}$	0.84 V	0.95 V	--
		$T_C = 125\text{ °C}$	0.72 V	0.85 V	--
I_R	Max. Instantaneous reverse current at $V_R = V_{RRMax}$	$T_C = 25\text{ °C}$	0.10 mA		
		$T_C = 125\text{ °C}$	15.0 mA	10.0 mA	6.0 mA
R_{thj-c}	Typical Thermal Resistance	3.0 °C/W			

Rating And Characteristic Curves

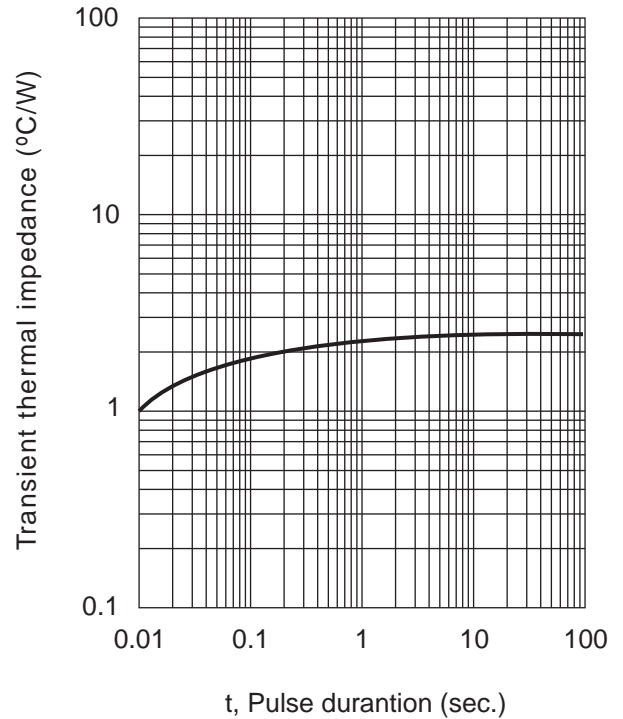


Rating And Characteristic Curves

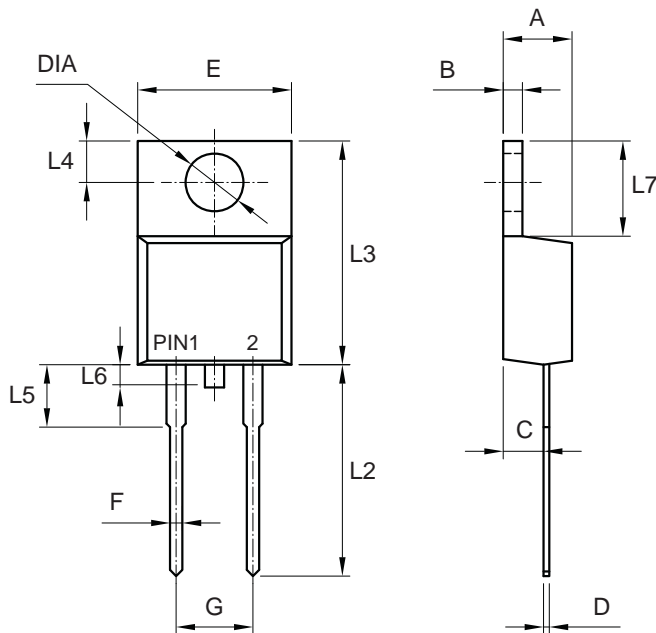
TYPICAL REVERSE CHARACTERISTIC



TYPICAL TRANSIENT THERMAL CHARACTERISTIC



PACKAGE MECHANICAL DATA TO-220AC



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	4.95	5.20
L2	13.46	14.22
L3	14.9	15.10
L4	2.62	2.87
L5	3.56	4.06
L6	-	1.60
L7	5.84	6.86
DIA	3.74	3.91