

Weight: 0.08 ounce, 2.24 grams

## Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	MBR 1535CT	MBR 1545CT	MBR 1550CT	MBR 1560CT	MBR 1590CT	MBR 15100CT	Units
Maximum Recurrent Peak Reverse Voltage	35	45	50	60	90	100	V
Maximum RMS Voltage	24	31	35	42	63	70	V
Maximum DC Blocking Voltage	35	45	50	60	90	100	V
Maximum Average Forward Rectified Current at $T_c$ =105°C	15						А
Peak Repetitive Forward Current (Rated V <sub>R</sub> , Square Wave, 20KHz) at Tc=105°C	15.0						А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	150						А
Peak Repetitive Reverse Surge Current (Note 1)	1	1.0 0.5					Α
$\begin{array}{l} \mbox{Maximum Instantaneous Forward Voltage at (Note 2)} \\ I_{\rm F}=7.5A, \ Tc=25^{\circ}C \\ I_{\rm F}=7.5A, \ Tc=125^{\circ}C \\ I_{\rm F}=15A, \ Tc=25^{\circ}C \\ I_{\rm F}=15A, \ Tc=125^{\circ}C \end{array}$	0.57 0.84 0.72		0.75 0.65 - -			.92 .82 -	V
Maximum Instantaneous Reverse Current @ Tc=25 $^\circ\!\!\mathbb{C}$	0.1		1.0		0.1		mA
at Rated DC Blocking Voltage (Note 2) @ Tc=125℃	15.0 50.0 -				mA		
Voltage Rate of Change (Rated V <sub>R</sub> )	1,000						V/uS
Maximum Thermal Resistance Per Leg (Note 3) $R \theta JA$ $R \theta JC$	60.0 3.0						°C/W
Operating Junction Temperature Range T	-65 to +150						ĉ
Storage Temperature Range TSTG	-65 to +175						ĉ

Notes: 1. 2.0us Pulse Width, f=1.0 KHz

2. Pulse Test: 300us Pulse Width, 1% Duty Cycle

3. Thermal Resistance from Junction to Case and Thermal Resistance from Junction to Ambient



