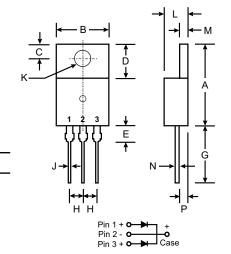


MBR2535CT - MBR2560CT

30A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Plastic Material: UL Flammability Classification Rating 94V-0



TO-220AB					
Dim	Min	Max			
Α	14.22	15.88			
В	9.65	10.67			
С	2.54	3.43			
D	5.84	6.86			
E	_	6.35			
G	12.70	14.73			
Н	2.29	2.79			
J	0.51	1.14			
K	3.53Ø	4.09∅			
L	3.56	4.83			
М	1.14	1.40			
N	0.30	0.64			
Р	2.03	2.92			
All Dimensions in mm					

Mechanical Data

• Case: Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: As Marked on Body
 Maintain 2004 present (approximately)

Weight: 2.24 grams (approx.)Mounting Position: Any

Modriting Fosition: Any
 Marking: Type Number

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

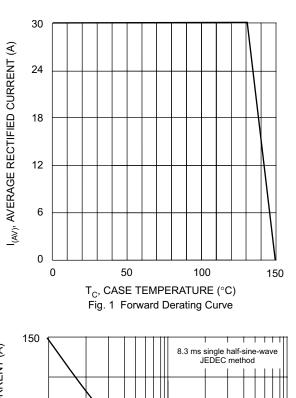
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

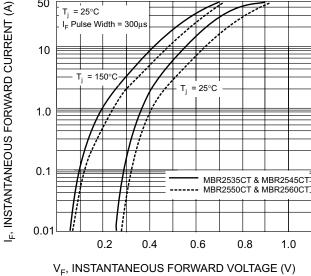
Characteristic		MBR2535CT	MBR2545CT	MBR2550CT	MBR2560CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		35	45	50	60	V
RMS Reverse Voltage		25	32	35	42	V
Average Rectified Output Current @ T _C = 130°C		30				Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		150			Α	
Peak Repetitive Reverse Surge Current (Note 3)		1	1.0 0.5		.5	Α
Forward Voltage Drop	V _{FM}			0.75 0.65 — —		V
$ \begin{array}{llllllllllllllllllllllllllllllllllll$		0.2 40		1.0 50		mA
Typical Junction Capacitance (Note 2)		7!	750		500	
Typical Thermal Resistance Junction to Case (Note 1)		1.5			°C/W	
Operating and Storage Temperature Range		-65 to +150			°C	

Notes: 1. Thermal resistance junction to case mounted on heatsink.

2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

3. 2.0 μ s pulse width, f = 1.0KHz.





TO TO THE PEAK FORWARD SURGE CURRENT (A)

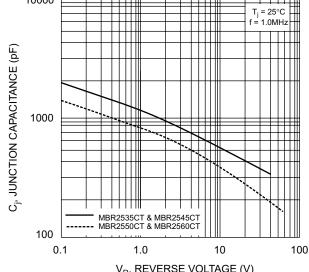
100

100

100

100





 $\begin{array}{ccc} \text{NUMBER OF CYCLES AT 60Hz} & \text{V}_{\text{R}}, \, \text{REVERSE VOLTAGE (V)} \\ \text{Fig. 3} & \text{Maximum Non-Repetitive Surge Current} & \text{Fig. 4} & \text{Typical Junction Capacitance} \end{array}$