

Features

- Guard Ring For Transient Protection
- High Current Capability, High Efficiency
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +175°C
- Typical thermal resistance: 2.0°C/W Junction to Case
- Mounting Torgue: 5 in-lbs Maximum

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR2520CT	MBR2520CT	20V	14V	20V
MBR2530CT	MBR2530CT	30V	21V	30V
MBR2535CT	MBR2535CT	35V	24.5V	35V
MBR2540CT	MBR2540CT	40V	28V	40V
MBR2545CT	MBR2545CT	45V	31.5V	45V
MBR2560CT	MBR2560CT	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

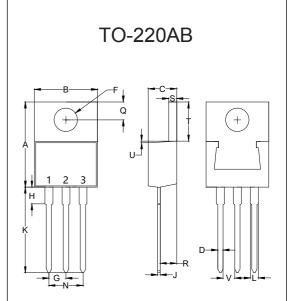
Average Forward Current	I _{F(AV)}	25A	T _C =130⁰C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage MBR2520CT~2545CT MBR2560CT		0.65V 0.75V	I _{FM} =12.5A; T _J =25°C I _{FM} =12.5A; T _J =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.2mA	TJ=22₀C
Typical Junction Capacitance	CJ	450pF	Measured at 1.0MHz, V _R =4.0V

Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure

PIN 1 •—		PIN 2
PIN 3 •—	╼	Case

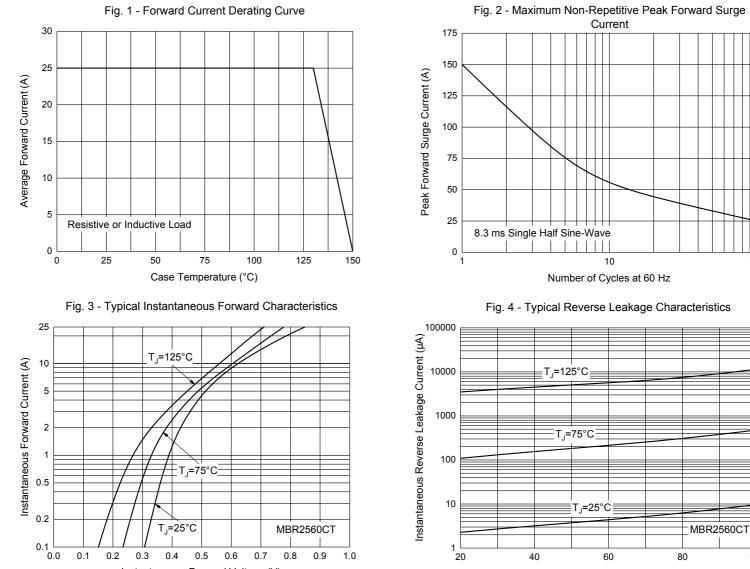
25 Amp Schottky Barrier Rectifier 20 to 60 Volts



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.560	0.625	14.22	15.88	
В	0.380	0.429	9.65	10.90	
С	0.140	0.201	3.56	5.10	
D	0.020	0.045	0.51	1.14	
F	0.131	0.170	3.34	4.31	Φ
G	0.079	0.121	2.01	3.07	
Н		0.250		6.35	
J	0.011	0.025	0.28	0.64	
Κ	0.500	0.580	12.70	14.73	
L	0.045	0.060	1.14	1.52	
Ν	0.158	0.242	4.02	6.14	
Q	0.087	0.135	2.22	3.43	
R	0.080	0.126	2.04	3.19	
S	0.045	0.055	1.14	1.39	
Т	0.230	0.270	5.84	6.86	
U		0.050		1.27	
V	0.045		1.15		



Curve Characteristics



Instantaneous Forward Voltage (V)

Percent of Rated Peak Reverse Voltage (%)

100

100



Ordering Information

Device	Packing	
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton	

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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