

Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- Low Power Loss and High Efficiency
- High Surge Capability
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

• Storage Temperature Range: -55°C to +150°C

Maximum Thermal Resistance: 4.5°C/W Junction to Case

• Typical Thermal Resistance : 4°C/W Junction to Case

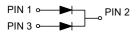
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR2535FCT	MBR2535FCT	35V	24.5V	35V
MBR2545FCT	MBR2545FCT	45V	31.5V	45V
MBR2550FCT	MBR2550FCT	50V	35V	50V
MBR2560FCT	MBR2560FCT	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

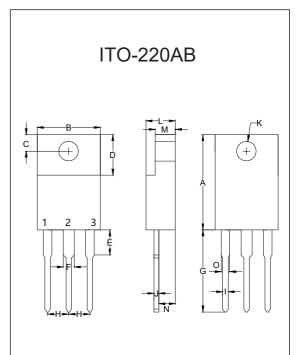
Average Forward Current	I _{F(AV)}	25A	T _C =80°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage MBR2535FCT~2545FCT MBR2550FCT~2560FCT	V _F	0.65V 0.75V	I _{FM} =12.5A; T _J =25°C I _{FM} =12.5A; T _J =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.2mA	T _J =25°C
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



25 Amp Schottky Barrier Rectifier 35 to 60 Volts



DIMENSIONS					
DIM	INC	HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.567	0.642	14.40	16.30	
В		0.421		10.70	
С	0.085	0.128	2.15	3.25	
D	0.248	0.272	6.30	6.90	
E		0.177		4.50	
F		0.071		1.80	
G	0.500	0.539	12.70	14.20	
Н	0.1	00	2.	55	
I		0.035		0.90	
J		0.032		0.80	
K	0.102	0.150	2.60	3.80	Ф
L		0.201		5.10	
М		0.140		3.56	
N	0.083	0.126	2.10	3.20	
0		0.071		1.80	



Curve Characteristics

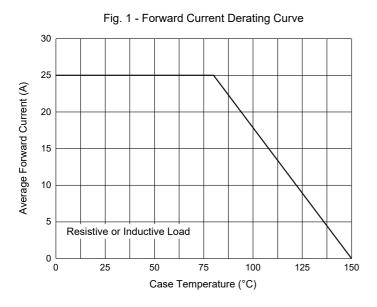
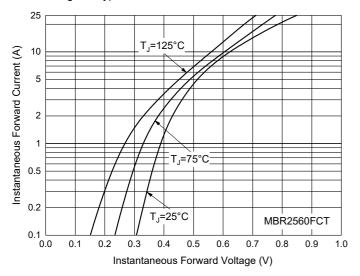


Fig. 3 - Typical Instantaneous Forward Characteristics



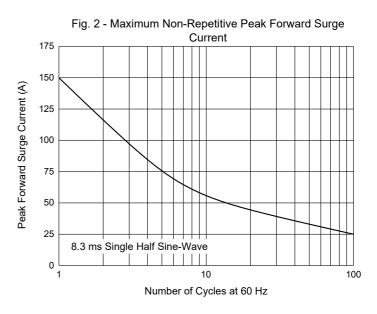
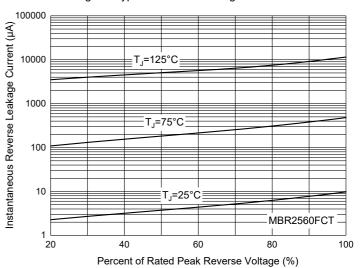


Fig. 4 - Typical Reverse Leakage Characteristics





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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