

MBR15U60

15 Amp Schottky Barrier Rectifier 60 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- High surge Forward current capability
- Low Power loss, High efficiency
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature:-55°C to +150°C
- Storage Temperature:-55°C to +150°C

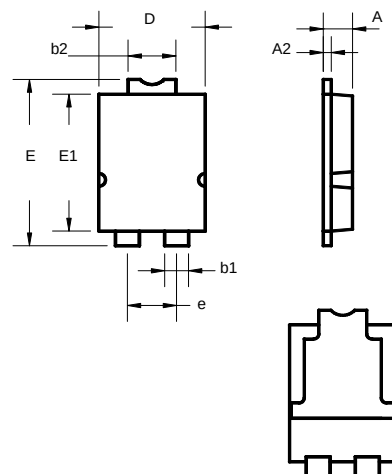
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR15U60	15U60	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I_o	15A	$T_c = 110^\circ\text{C}$	
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine	
Forward Voltage	V_F	Min.	Typ.	Max.
		---	0.47V	0.50V
Reverse Current	I_R	---	---	0.5mA
		---	---	100mA
Reverse Breakdown Voltage	V_{BR}	60V	---	---
		---	---	---
Current Squared Time	I^2t	375 A ² s	1ms ≤ t < 8.3ms	
Maximum thermal Resistance	$R_{\theta JC}$	8.0 °C/W	$T_J = 25^\circ\text{C}$	

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

TO-277



PIN 3
HEAT SINK

PIN 2
PIN 1

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.041	.045	1.05	1.15	
A2	.010	.014	0.25	0.35	
b1	.031	.039	0.80	1.00	
b2	.067	.075	1.70	1.90	
D	.154	.161	3.90	4.10	
E	.252	.260	6.40	6.60	
E1	.205	.215	5.20	5.40	
e	.071	.075	1.80	1.90	

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Characteristics(Typical)

FIG1: IF (AV) --Tc Derating

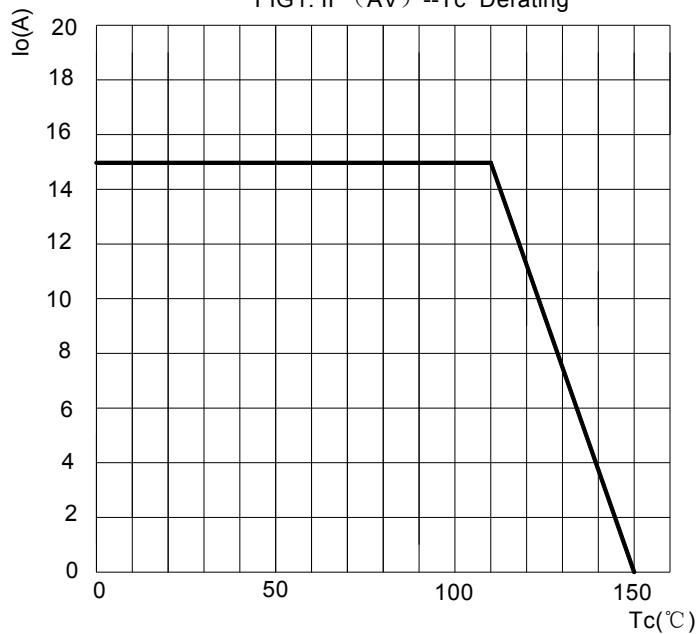


FIG2: Surge Forward Current Capability

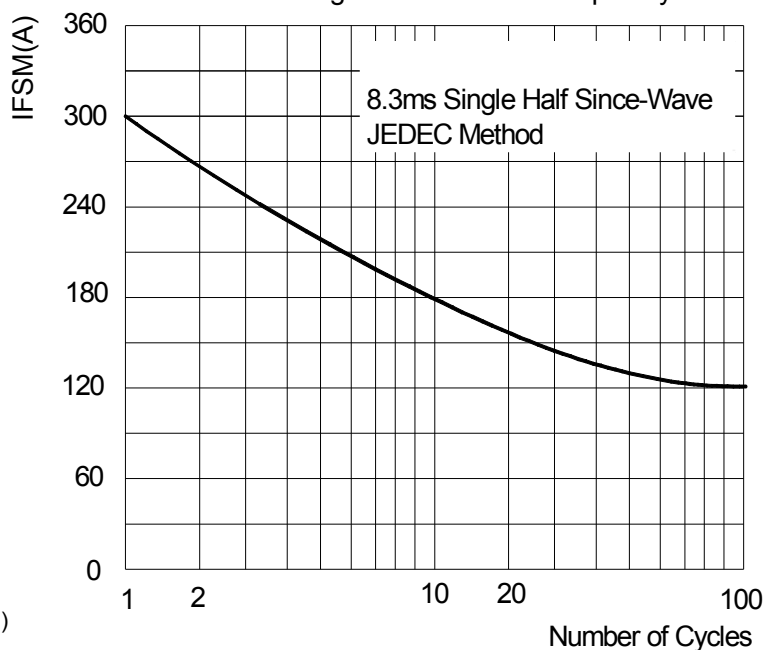


FIG3: Instantaneous Forward Voltage

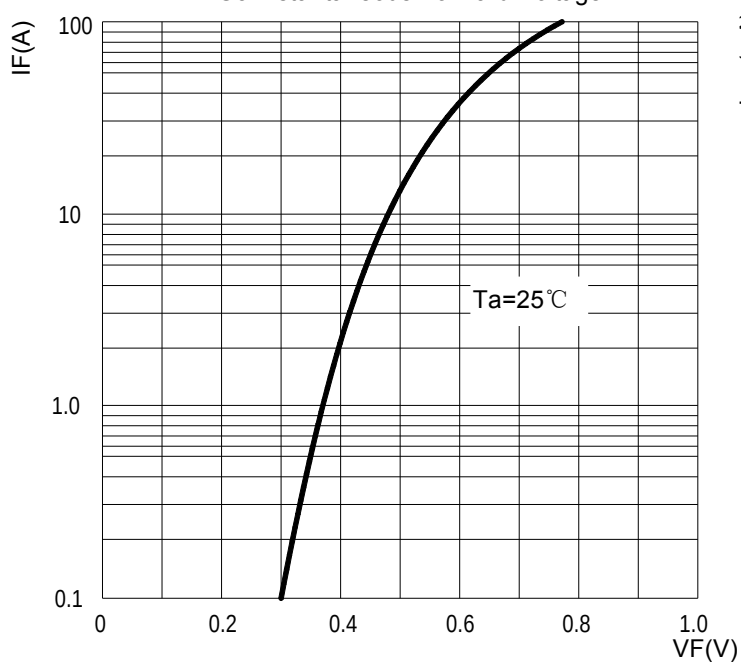
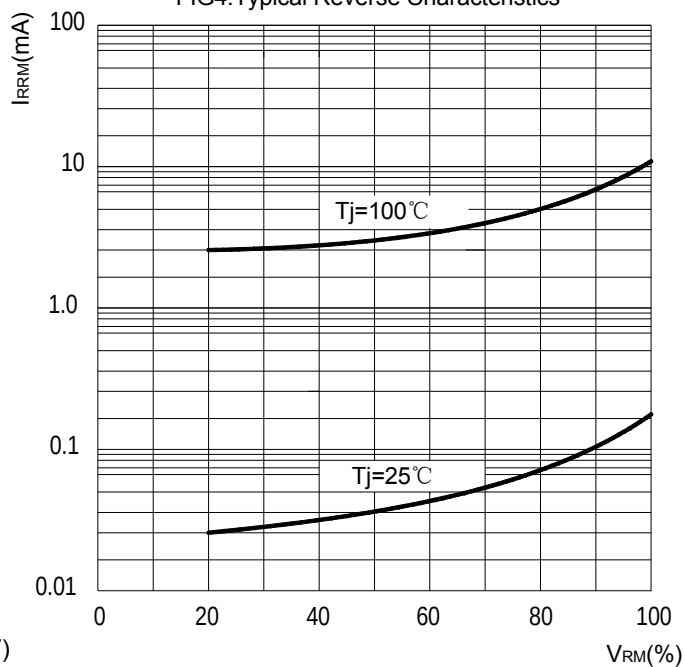


FIG4: Typical Reverse Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 4Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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