



Micro Commercial Components



Micro Commercial Components  
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# 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

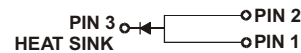
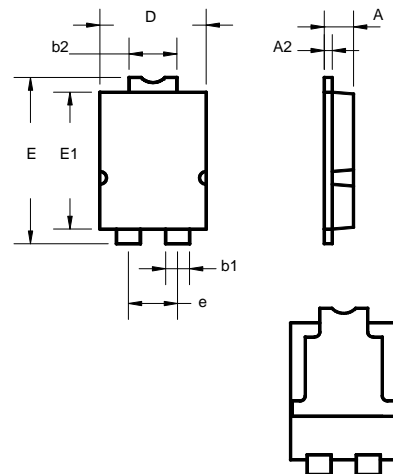
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR15U60	15U60	60V	42V	60V

### 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.	$I_F=15A$	$T_J=25^\circ\text{C}$
		---	0.47V	0.50V		
Reverse Current	$I_R$	---	---	0.5mA	$V_R=50$	$T_J=25^\circ\text{C}$
		---	---	100mA		
Reverse Breakdown Voltage	$V_{BR}$	60V	---	---	$I_R=0.5mA$	
Current Squared Time	$I^2t$	375 A <sup>2</sup> s			1ms ≤ t < 8.3ms $T_J=25^\circ\text{C}$	
Maximum thermal Resistance	$R_{\theta JC}$	8.0 °C/W				

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

### TO-277



DIM	DIMENSIONS				NOTE
	INCHES		MM		
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

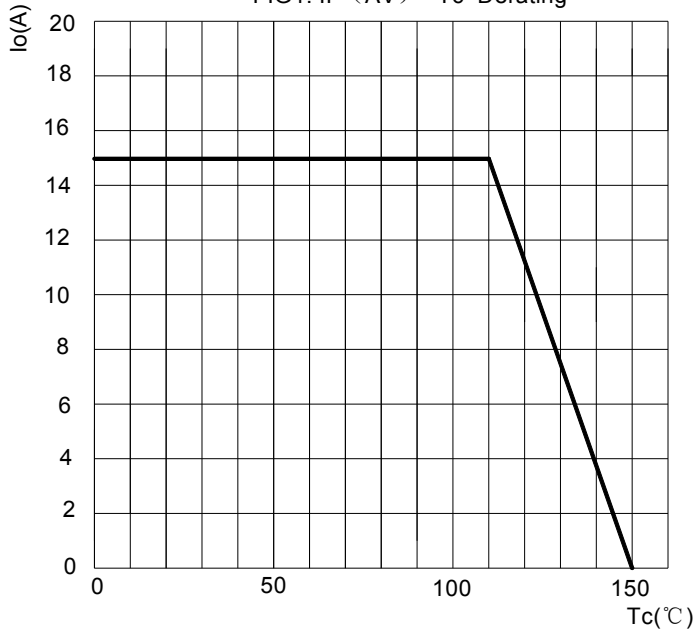


FIG2: Surge Forward Current Capability

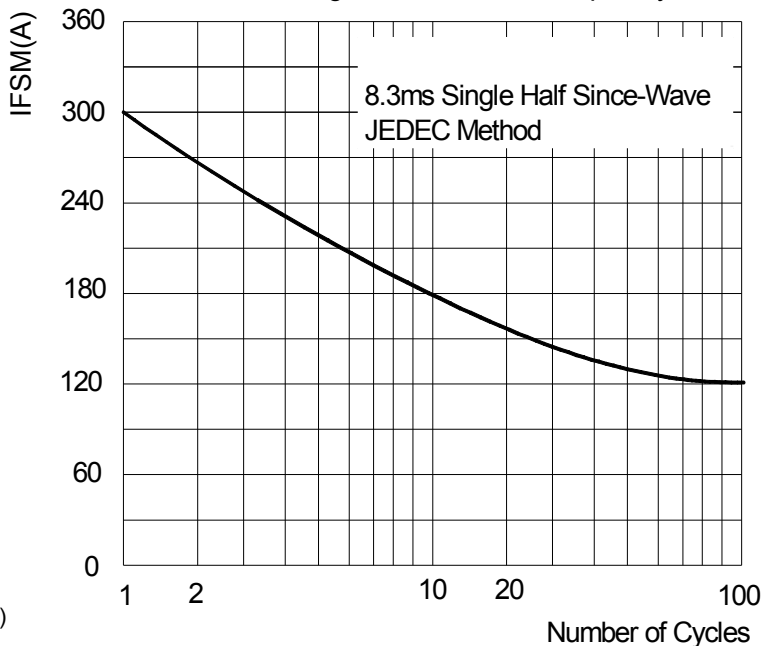


FIG3: Instantaneous Forward Voltage

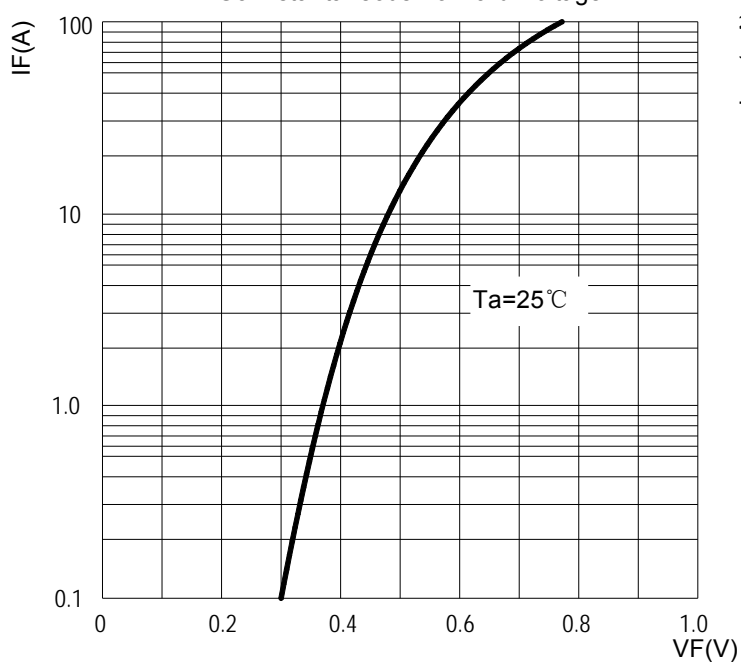
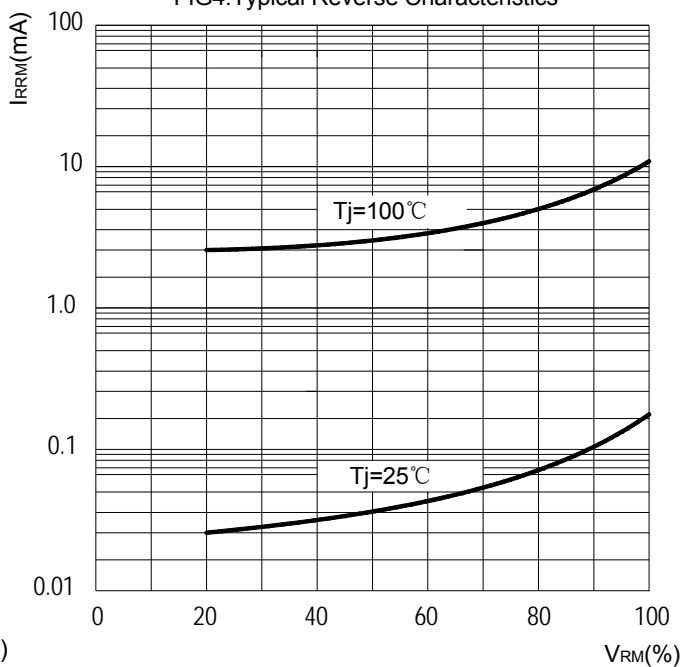


FIG4: Typical Reverse Characteristics





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## 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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