Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

MBR15U60

15 Amp Schottky Barrier Rectifier 60 Volts

Features

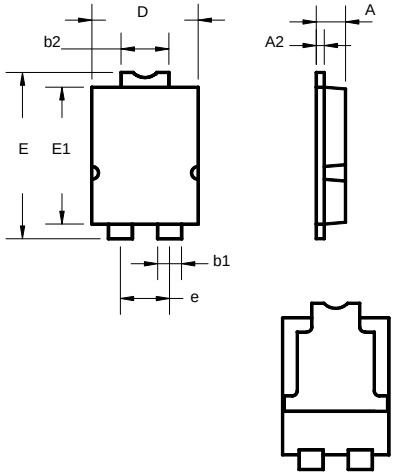
- Halogen free available upon request by adding suffix "-HF"
- High surge Forward current capability
- Low Power loss, High efficiency
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity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

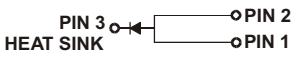
Maximum Ratings

- 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

TO-277





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
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	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I_o	15A			T_c = 110°C
Peak Forward Surge Current	I_{FSM}	300A			8.3ms, half sine
Forward Voltage	V_F	Min.	Typ.	Max.	
		---	0.47V	0.50V	I_F=15A T_J=25°C
		---	0.42V	0.45V	I_F=15A T_J=125°C
Reverse Current	I_R	---	---	0.5mA	V_R=50 T_J=25°C
		---	---	100mA	V_R=50 T_J=125°C
Reverse Breakdown Voltage	V_{BR}	60V	---	---	I_R=0.5mA
Current Squared Time	I^2t	375 A^2s			1ms≤t<8.3ms T_j=25℃
Maximum thermal Resistance	$R_{\theta JC}$	8.0 ℃/W			

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

MBR15U60

Characteristics(Typical)

FIG1: IF（AV）--Tc Derating

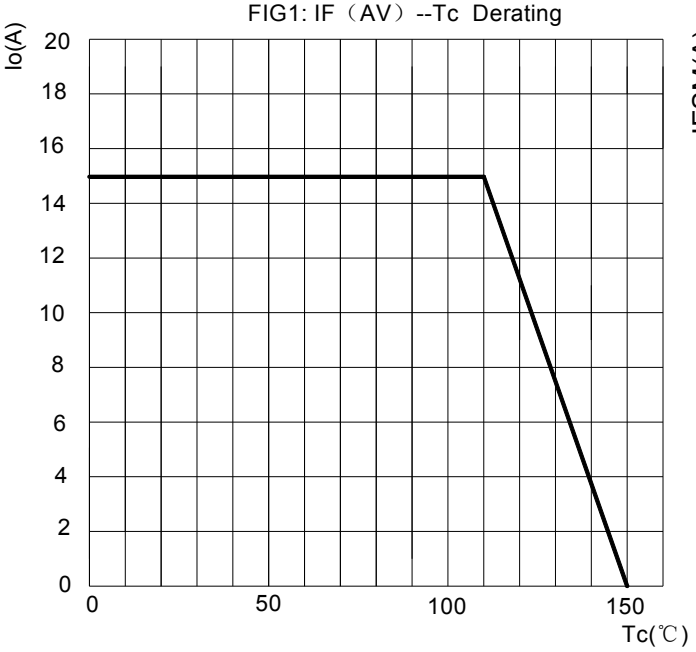


FIG2:Surge Forward Current Capadility

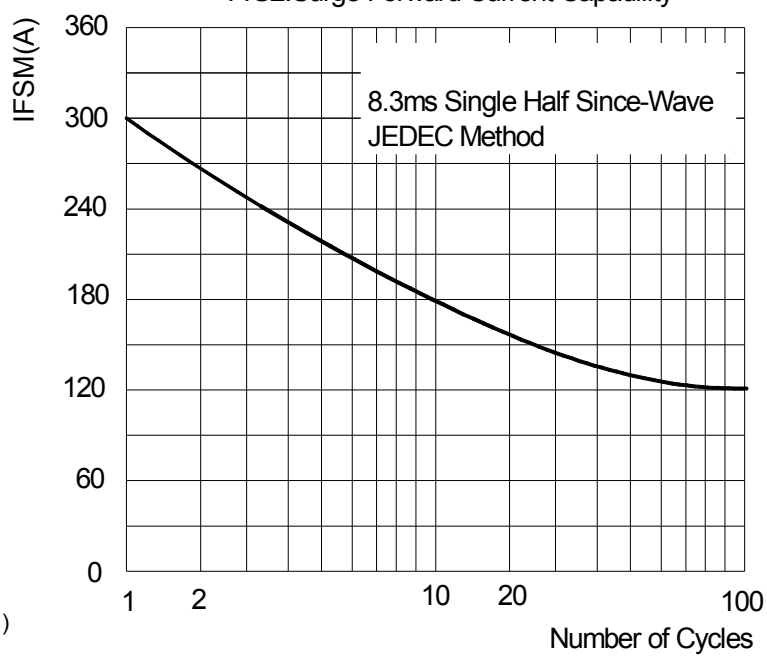


FIG3:Instantaneous Forward Voltage

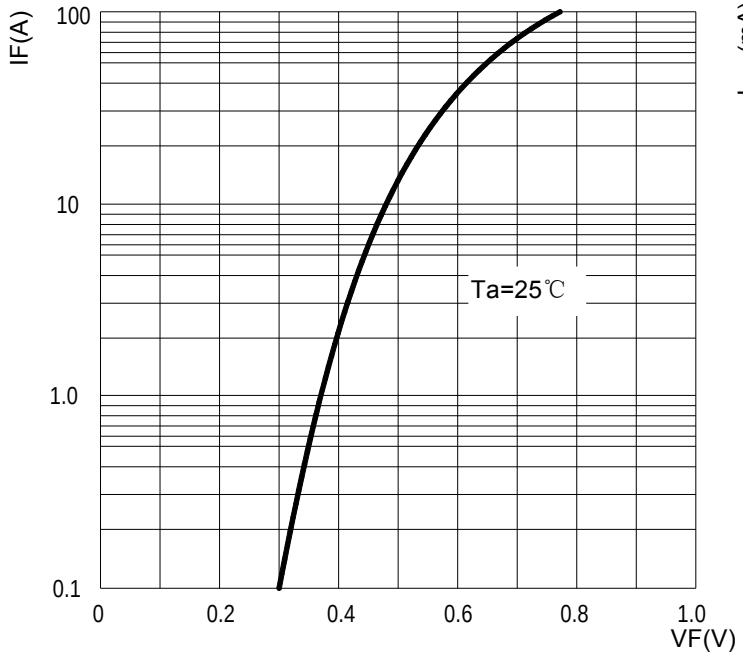
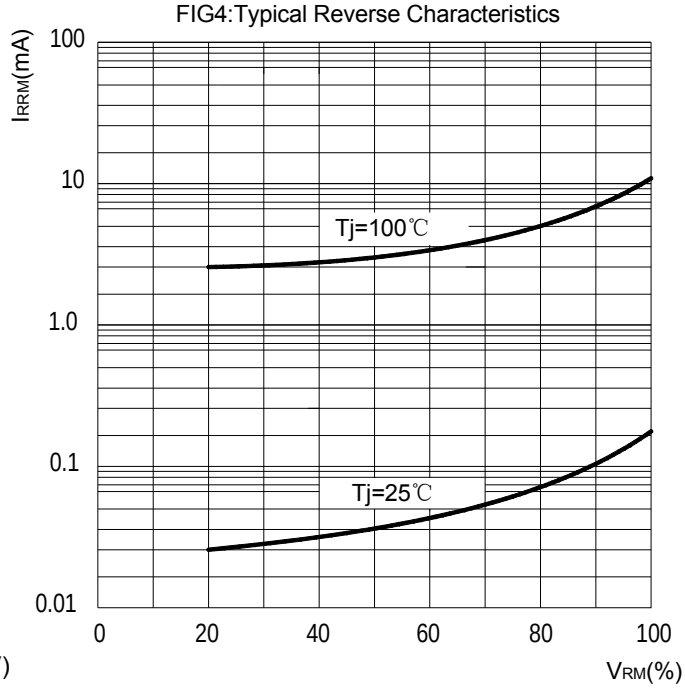


FIG4:Typical Reverse Characteristics



Micro Commercial Components

Ordering Information

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

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

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

*****APPLICATIONS DISCLAIMER*****

Products offer by *Micro Commercial Components Corp*. are not intended for use in Medical, Aerospace or Military Applications.