



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MBR12U100L

12 Amp Schottky Barrier Rectifier 100 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

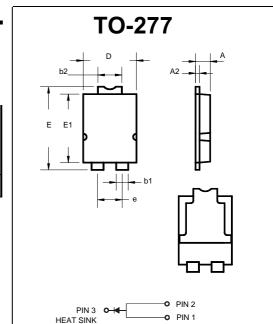
- Operating Temperature:-55°C to +150°C
- Storage Temperature:-55°C to +150°C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR12U100L	12U100L	100V	70V	100V

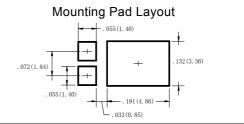
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	Io		12A		See Fig	1
Peak Forward Surge Current	I _{FSM}		180A		8.3ms, I	nalf sine
		Min.	Тур.	Max.		
Forward Voltage	V_{F}		0.53V	0.60V	I=12A	T _J =25°C
Reverse Current	I _R			0.5mA 10mA	V _R =100 V _R =100	T _J =25°C T _J =125°C
Reverse Breakdown Voltage	V_{BR}	100V			I _R =0.5n	nΑ
Current Squared Time	l²t	135 A ² s		1ms \leq t $<$ 8.3ms Tj=25 $^{\circ}$ C		
Maximum thermal Resistance	$R_{\theta JC}$	8.0 ℃/W				

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



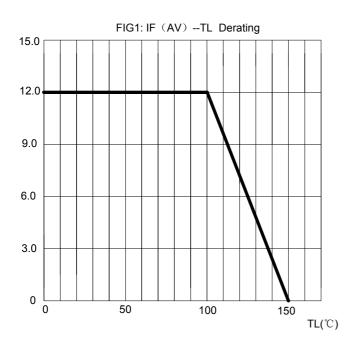
DIMENSIONS					
BINIEROIONO					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.041	.045	1.05	1.15	
A2	.010	.014	0.25	0.35	
b1	.031	.039	0.80	1.00	
b2	.067	.075	1.70	1.90	
D	.154	.161	3.90	4.10	
Е	.252	.260	6.40	6.60	
E1	.205	.215	5.20	5.40	
е	.071	.075	1.80	1.90	

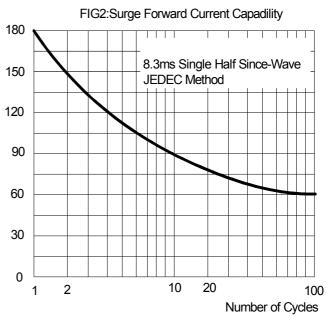


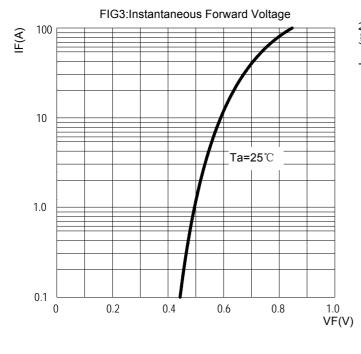


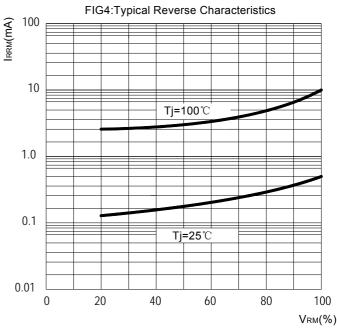
MBR12U100L

Characteristics(Typical)











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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