

Micro Commercial Components

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MBRL2045FCT

Features

- · High surge forward current capability
- Low Power loss, High efficiency
- Marking : type number
- Halogen free available upon request by adding suffix "-HF"
- 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
- Maximum Thermal Resistance Junction to Case: 2.0°C/W

MCC	Maximum	Maximum	Maximum
Catalog	Recurrent	RMS	DC
Number	Peak Reverse	Voltage	Blocking
	Voltage		Voltage
MBRL2045FCT	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

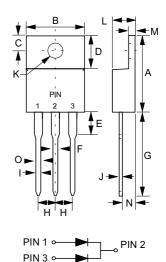
Average Forward Current	$I_{F(AV)}$	20 A	T _C = 90°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, half sine
Current Squared Time	l²t	94 A ² S	1ms≤t<8.3ms Tj=25℃,Rating of per diode
Maximum Instantaneous Forward Voltage	V_{F}	.52V	I _{FM} = 10A; T _A =25°C
Peak Reverse Current	I _R	0.2mA 20mA	T _A = 25°C T _A = 100°C

 ${\bf Notes: 1. High\ Temperature\ Solder\ Exemption\ Applied,\ see\ EU\ Directive\ Annex\ 7.}$

Schottky Barrier Rectifier 45 Volts

20 Amp Low VF

ITO-220AB



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.583	.606	14.80	15.40	
В		.406		10.30	
С	.100	.112	2.55	2.85	
D	.248	.272	6.30	6.90	
Е		.161		4.10	
F		.071		1.80	
G	.512	.543	13.00	13.80	
Н	.100		2.55		
- 1		.035		0.90	
J		.032		0.80	
K	.118	.134	3.00	3.40	Ø
Г		.189		4.80	
М		.130		3.30	
N	.098	.114	2.50	2.90	
0		.055		1.40	



■ Characteristics(Typical)

FIG1:Forward Current Derating Curve

28.0 24.0 20.0 16.0 TC measure oint IN DC 12.0 • 8.0 4.0 0 150 50 100 Tc(°C)

FIG2:Surge Forward Current Capadility

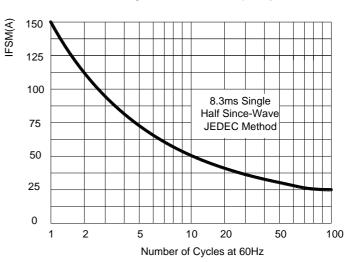


FIG3:Instantaneous Forward Voltage

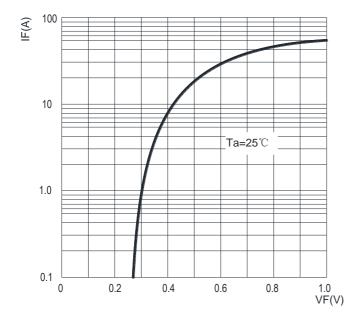
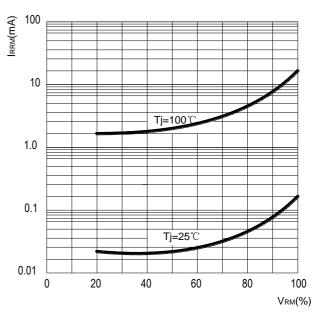


FIG4:Typical Reverse Characteristics





Ordering Information

Device	Packing
(Part Number)-BP	Bulk:1Kpcs/Box

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

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