Micro Commercial Components

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MBRBL2045C

20 Amp
Schottky Barrier Rectifier
45 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Low power loss,High efficiency
- Low VF,Low IR
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix designates Compliant. See ordering information)
- Marking: type number

Maximum Ratings

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Operating Junction Temperature :-55°C to +200°C
- Storage Temperature: -55°C to +150°C

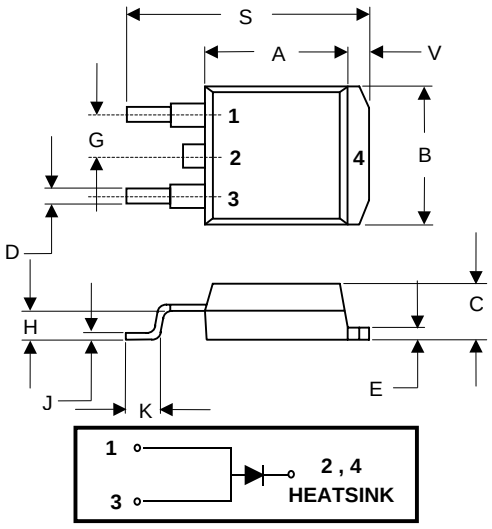
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRBL2045C	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20A	T_C = 160℃
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	0.53V	I_{FM} = 20A; Ta= 25℃
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.1mA 20mA	Ta= 25℃ Ta= 125℃
Maximum Thermal Resistance	R_{thJC}	2.0°C/W	

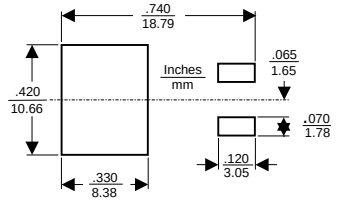
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

D²-PAK



DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
A	.320	.359	8.13	9.14	
B	.380	.411	9.65	10.45	
C	.160	.190	4.06	4.83	
D	.020	.035	0.51	0.89	
E	.045	.055	1.14	1.40	
G	.095	.105	2.41	2.67	
H	.096	.120	2.43	3.03	
J	.014	.021	0.35	0.53	
K	.090	.110	2.29	2.79	
S	.575	.625	14.60	15.80	
V	.045	.055	1.14	1.40	

SUGGESTED SOLDER PAD LAYOUT



■ Characteristics(Typical)

FIG1: IF（AV）--Tc Derating

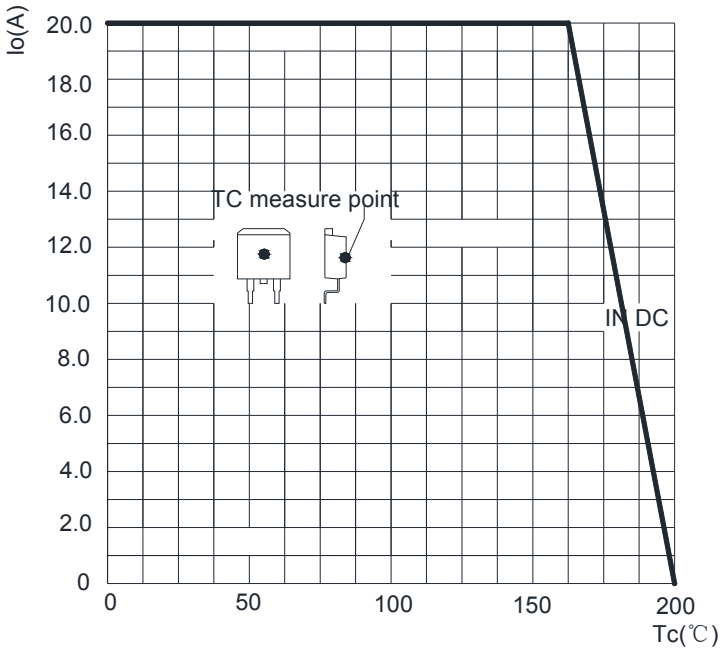


FIG2:Surge Forward Current Capadility

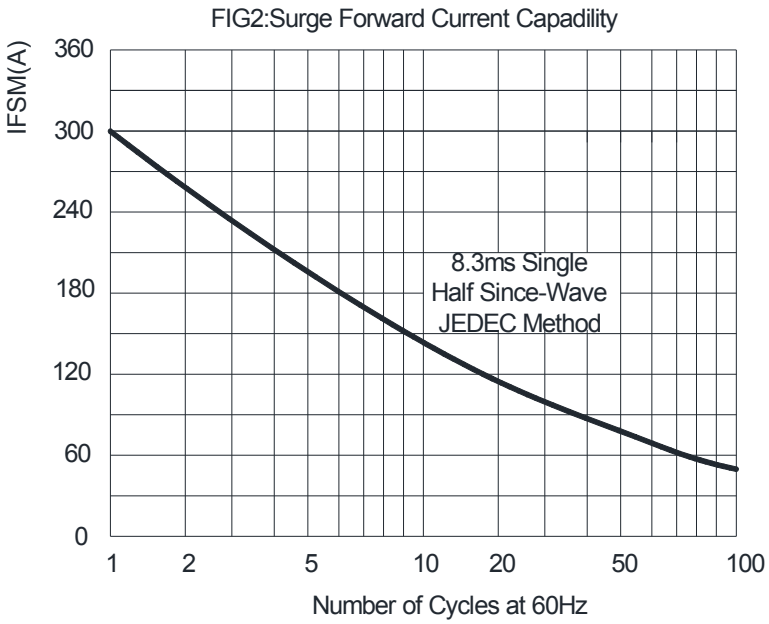


FIG3:Instantaneous Forward Voltage

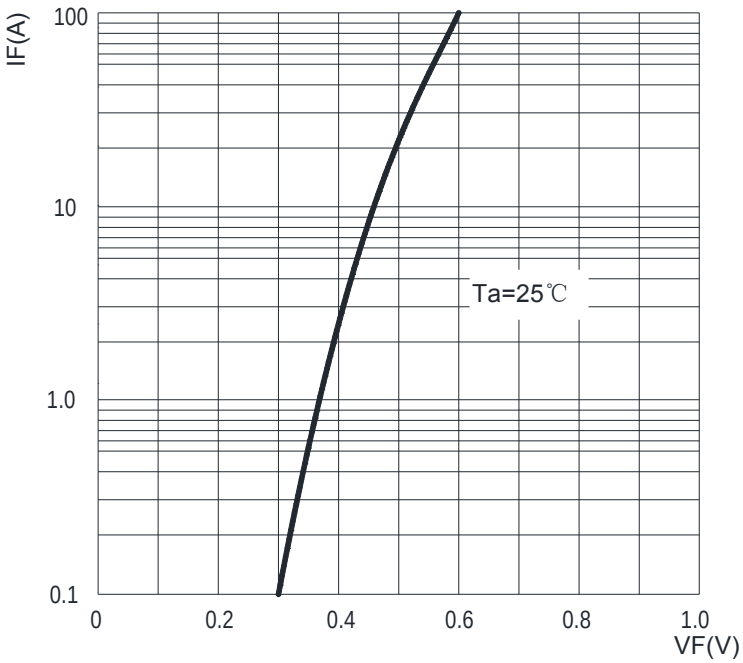
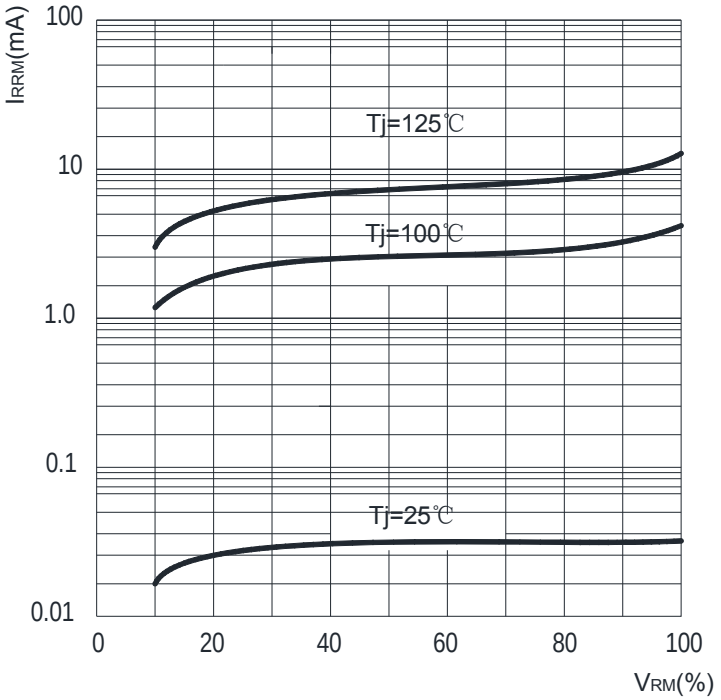


FIG4:Instantaneous Reverse Characteristics



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 800pcs/Reel
Part Number-BP	Tube: 5Kpcs/Ctn

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

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