

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MBRL20100FCT MBRL20150FCT

20 Amp Low VF Schottky Barrier Rectifier 100~150 Volts

Features

- High Surge Current Capacity
- Low Power Loss, High Efficiency
- 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

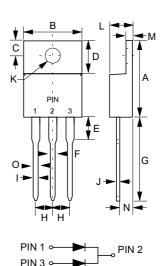
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL20100FCT	MBRL20100FCT	100V	70V	100V
MBRL20150FCT	MBRL20150FCT	150V	105V	150V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	20 A	Tc=90°C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_{F}		I - 10A:
MBRL20100FCT MBRL20150FCT		.72V .90V	I _{FM} = 10A; T _A =25°C
		1001	T _A = 25°C
Maximum DC Reverse Current At Rated DC	I _R	0.1mA	1A - 25 C
Blocking Voltage		30mA	T _A = 125°C
Current Squared	I ² t	166 A ² s	1ms≤t<8.3ms Tj=25℃
Time	, ,	100713	Rating of per diode
Typical Thermal Resistance	R_{thJC}	4.0 °C/W	

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

ITO-220AB

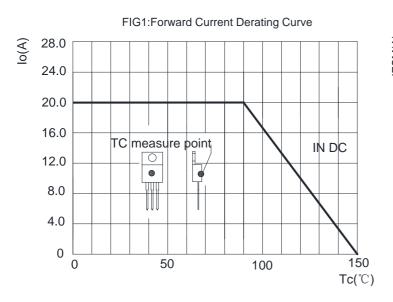


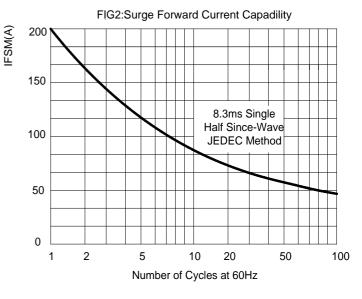
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.567	.626	14.40	15.90	
В		.421		10.70	
С	.085	.128	2.15	3.25	
D	.248	.272	6.30	6.90	
Е		.177		4.50	
F		.071		1.80	
G	.504	.559	12.70	14.20	
Н	.100		2.55		
- 1		.035	-	0.90	
J		.032		0.80	
K	.102	.150	2.60	3.80	Ø
L		.201		5.10	
M		.140		3.56	
N	.083	.126	2.10	3.20	
0		.055		1.40	

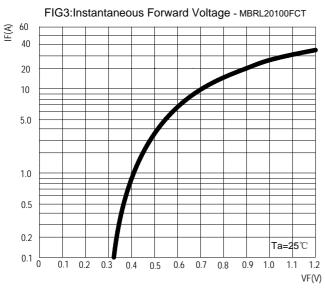


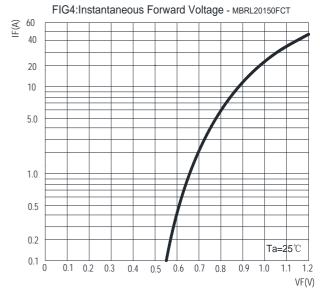
MBRL20100FCT thru MBRL20150FCT

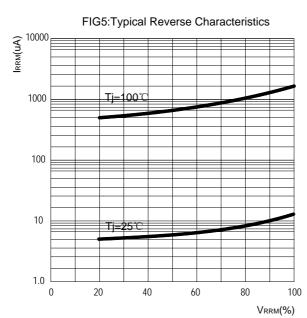
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Ordering Information

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

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

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