



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MBRL20100FCT MBRL20150FCT

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

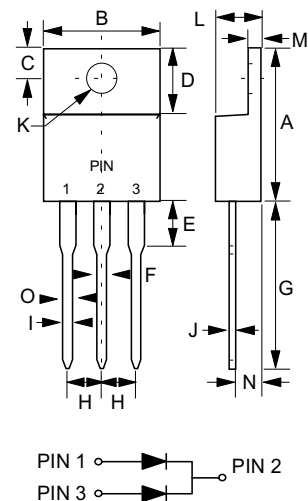
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	$T_C = 90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.72V .90V	$I_{FM} = 10A$; $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.1mA 30mA	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Current Squared Time	I^2t	166 A ² s	$1\text{ms} \leq t < 8.3\text{ms}$ $T_J = 25^\circ\text{C}$ 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.

20 Amp Low VF Schottky Barrier Rectifier 100~150 Volts

ITO-220AB



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.567	.626	14.40	15.90	
B	---	.421	---	10.70	
C	.085	.128	2.15	3.25	
D	.248	.272	6.30	6.90	
E	---	.177	---	4.50	
F	---	.071	---	1.80	
G	.504	.559	12.70	14.20	
H	---	.100	---	2.55	
I	---	.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	
O	---	.055	---	1.40	

MBRL20100FCT thru MBRL20150FCT

FIG1: Forward Current Derating Curve

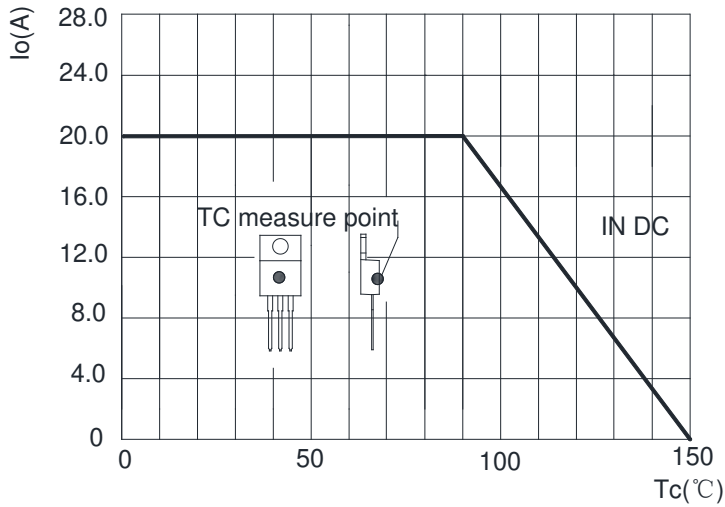


FIG2: Surge Forward Current Capability

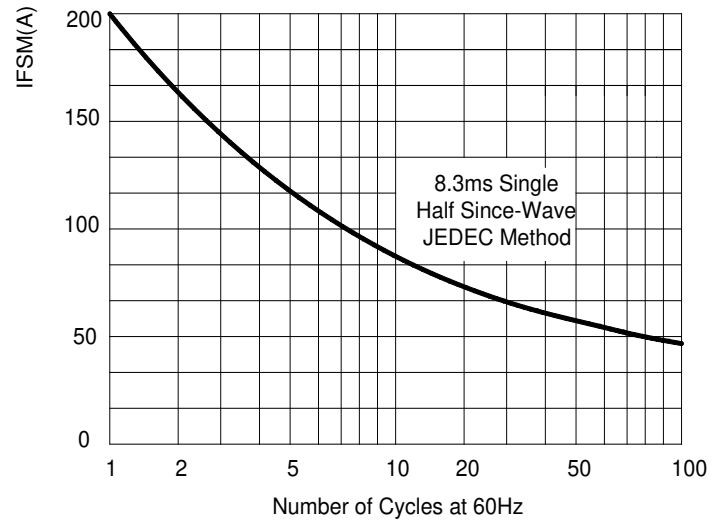


FIG3: Instantaneous Forward Voltage - MBRL20100FCT

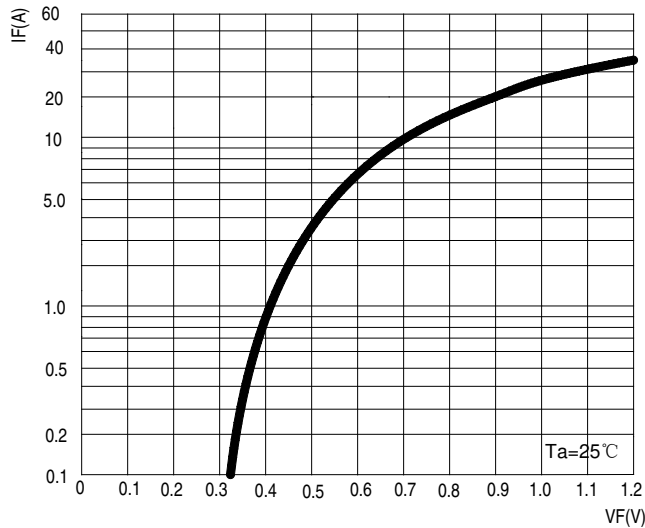


FIG4: Instantaneous Forward Voltage - MBRL20150FCT

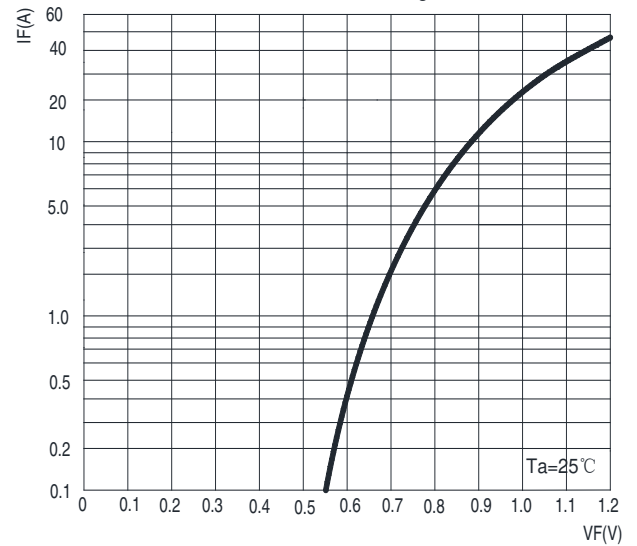
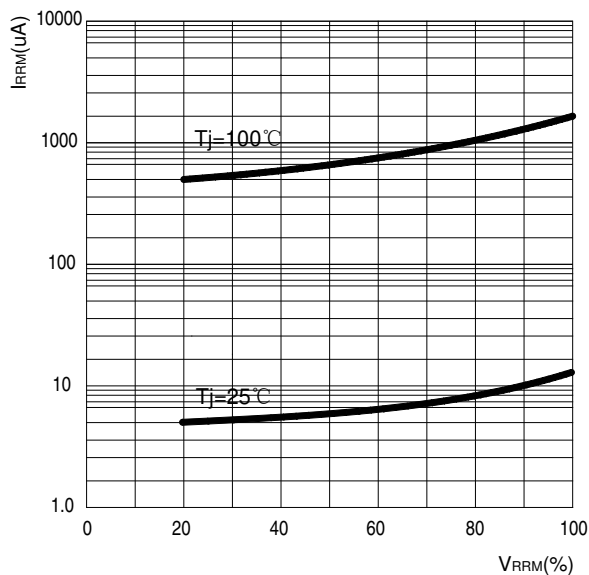


FIG5: Typical Reverse Characteristics





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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