



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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Micro Commercial Components



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MBRL20100CT

20 Amp Low VF Schottky Barrier Rectifier 100 Volts

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

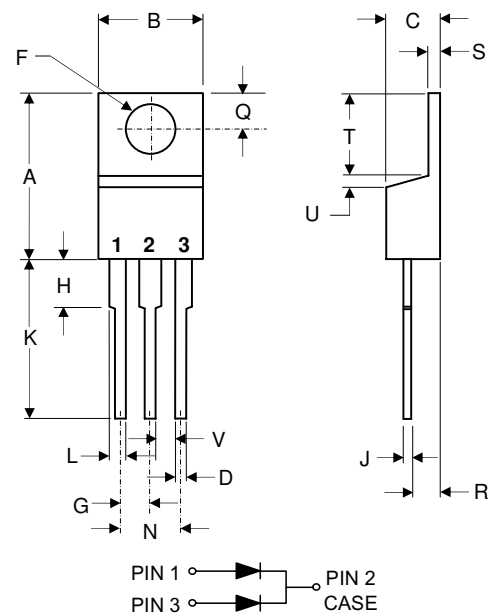
MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL20100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	$T_C = 110^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Current Squared Time	I^2t	167A ² S	1ms ≤ t < 8.3ms T _j =25°C, Rating of per diode
Maximum Instantaneous Forward Voltage	V_F	.70V	$I_{FM} = 10A;$ $T_A = 25^\circ\text{C}$
Peak Reverse Current	I_R	0.1mA 10mA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$

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

TO-220AB



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.560	.625	14.22	15.88	
B	.380	.429	9.65	10.90	
C	.140	.200	3.56	5.10	
D	.020	.045	0.51	1.14	
F	.131	.170	3.34	4.31	∅
G	.079	.121	2.01	3.07	
H	---	.250	---	6.35	
J	.011	.025	0.28	0.64	
K	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
N	.158	.242	4.02	6.14	
Q	.087	.135	2.22	3.43	
R	.080	.126	2.04	3.19	
S	.045	.055	1.14	1.39	
T	.230	.270	5.84	6.86	
U	----	.050	----	1.27	
V	.045	----	1.15	----	

■ Characteristics(Typical)

FIG1:Forward Current Derating Curve

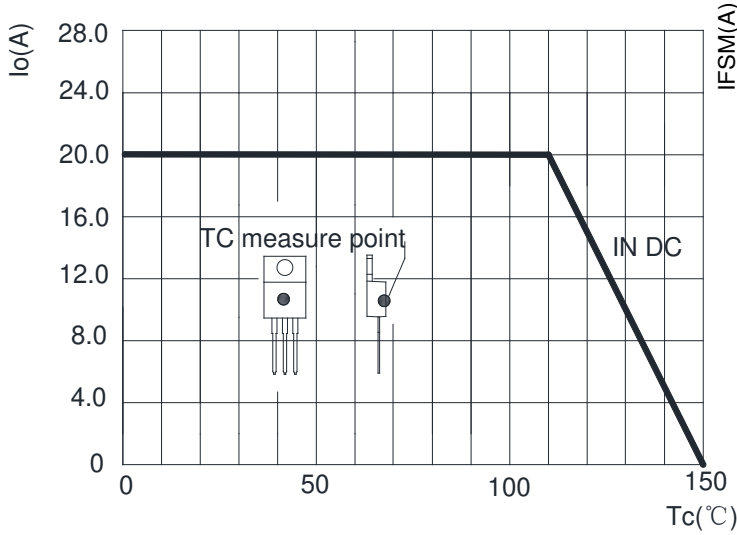


FIG2:Surge Forward Current Capacity

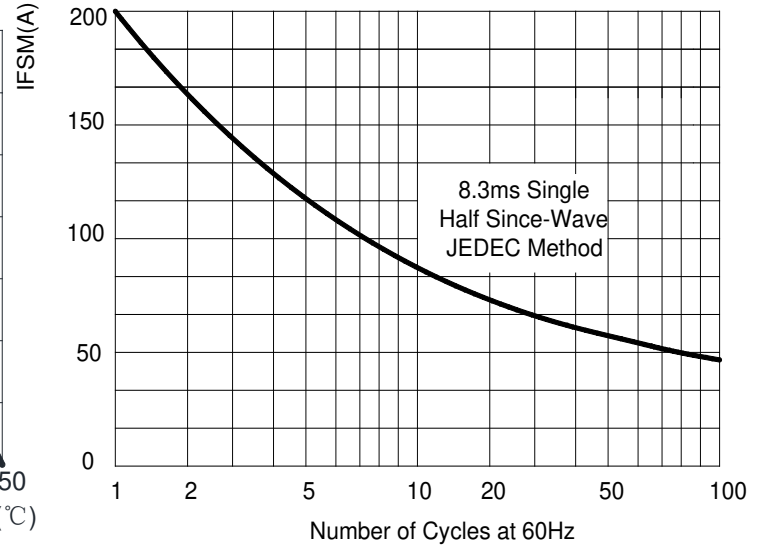


FIG3:Instantaneous Forward Voltage

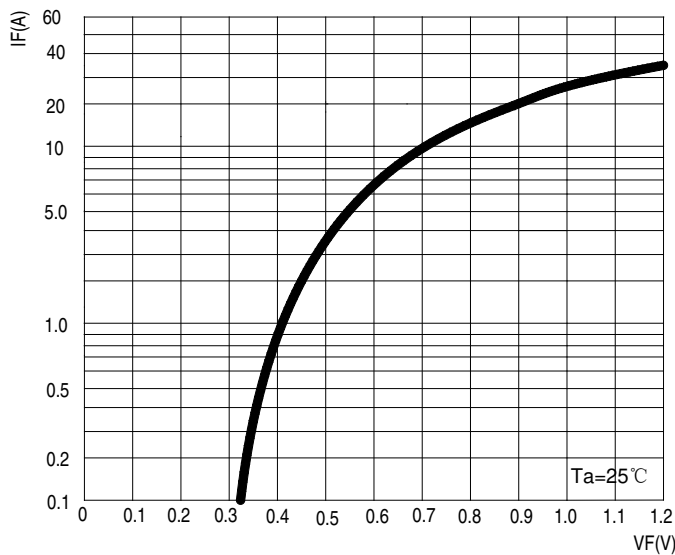
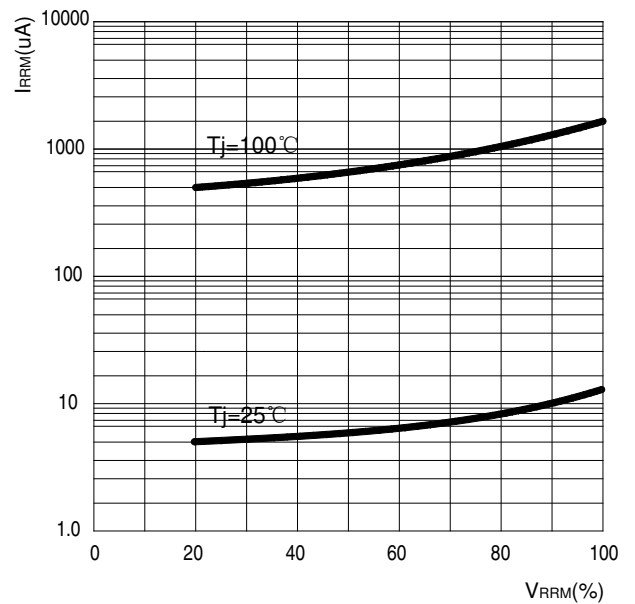


FIG4:Typical Reverse Characteristics





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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