Micro Commercial Components
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MBRL10100CT

10 Amp Low VF Schottky Barrier Rectifier 100Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- High Surge Current Capability
- Low Power Loss, High efficiency
- Marking : type number
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature: - 50°C to +150°C
- Storage Temperature: - 50°C to +150°C
- Mounting Torgue: 5 in-lbs Maximum

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL10100CT	100 V	70V	100 V

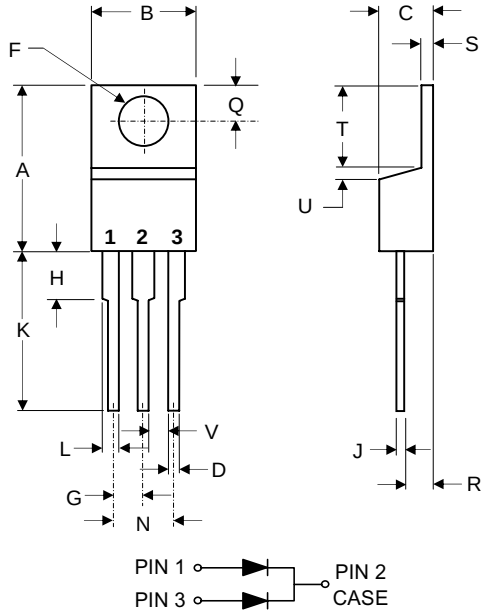
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10 A	T_C = 90 °C
Peak Forward Surge Current	I_{FSM}	120A	8.3ms half sine
Maximum Instantaneous Forward Voltage	V_F	.72V	I_{FM} = 5A (Per Leg) T_J = 25°C
Maximum Reverse Current At Rated DC Blocking Voltage	I_R	100uA 30mA	T_a= 25°C T_a = 100°C
Thermal Resistance(Typical) (NOTE 2)	$R_{\theta J-C}$	2.0°C/W	

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

2. Thermal resistance from junction to case per leg with heat-sink size of 2"×3"×0.25" AL-plate

TO-220AB



DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
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	-----	

FIG1: IF（AV）--Tc Derating

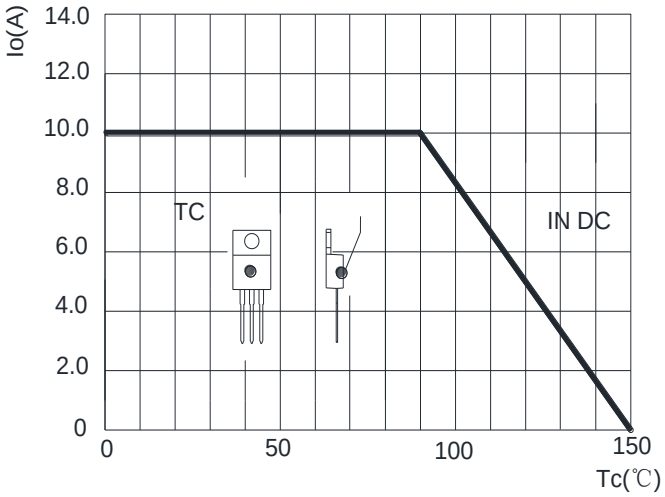


FIG2:Surge Forward Current Capadility

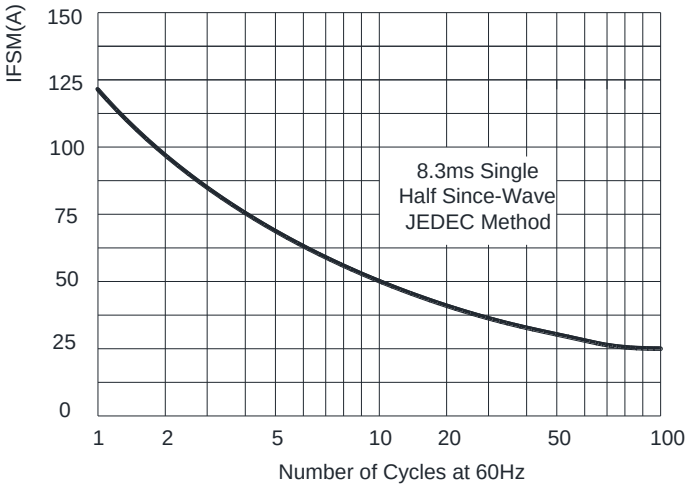


FIG3:Instantaneous Forward Voltage

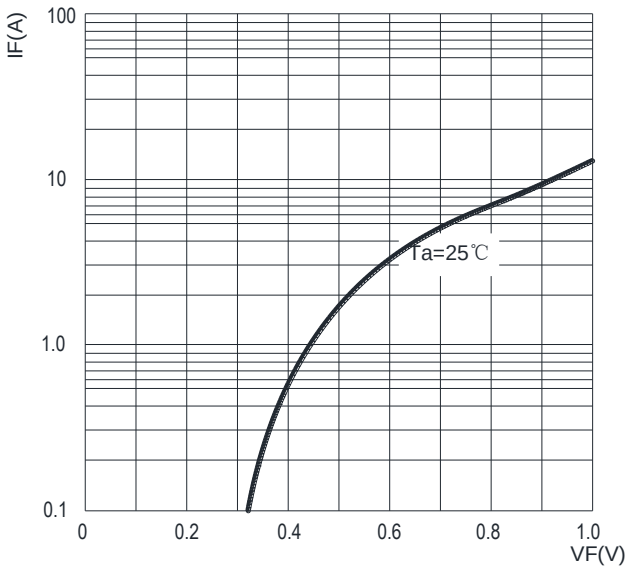
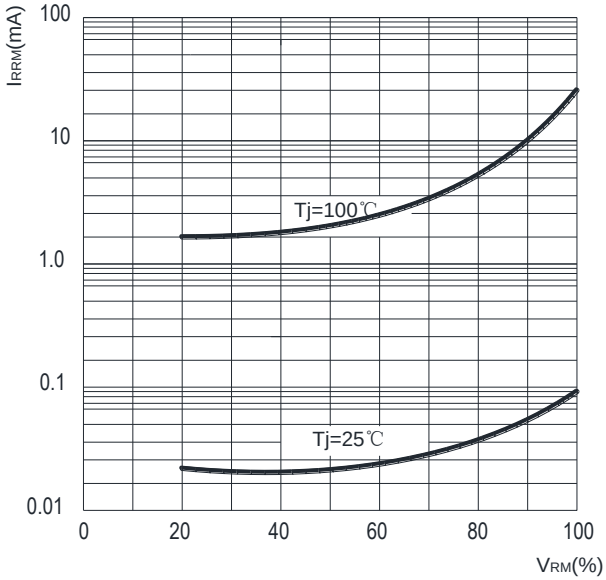


FIG4:Typical Reverse Characteristics



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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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