Micro Commercial Components

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MBRD20100

20 Amp Schottky Barrier Rectifier 100 Volts

Features

- Pb-Free Package
- Have Over Voltage protect loop，high reliability.
- Extremely Low Forward Drop.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

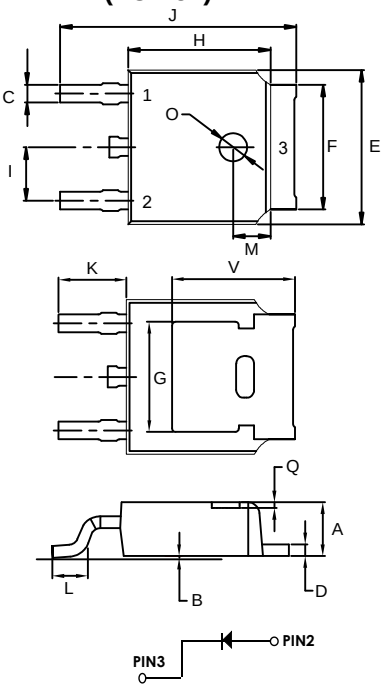
- Operating Temperature:- 55℃ to +150℃
- Storage Temperature: -55℃ to +150℃
- Typical Thermal Resistance (Per Leg): 3℃/W Junction To Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD20100	MBRD20100	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20A	T_C=115°C
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	0.71V(typ) 0.76V 0.68V	I_F=20A;T_J=25℃ I_F=20A;T_J=25℃ I_F=20A; T_J=125℃
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	50uA 25mA	T_J = 25℃ T_J = 125℃

(TO-252) DPAK



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.087	0.094	2.20	2.40	
B	0.000	0.005	0.00	0.13	
C	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
E	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		
H	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.114		2.90		
L	0.055	0.067	1.40	1.70	
M	0.063		1.60		
O	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.211		5.35		

Figure 1:The forward voltage and forward current curve

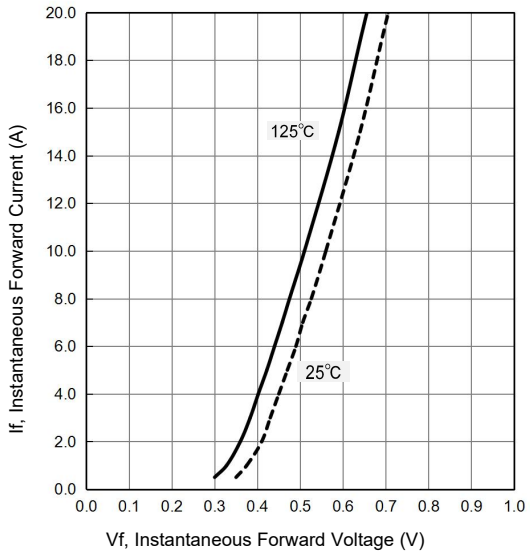
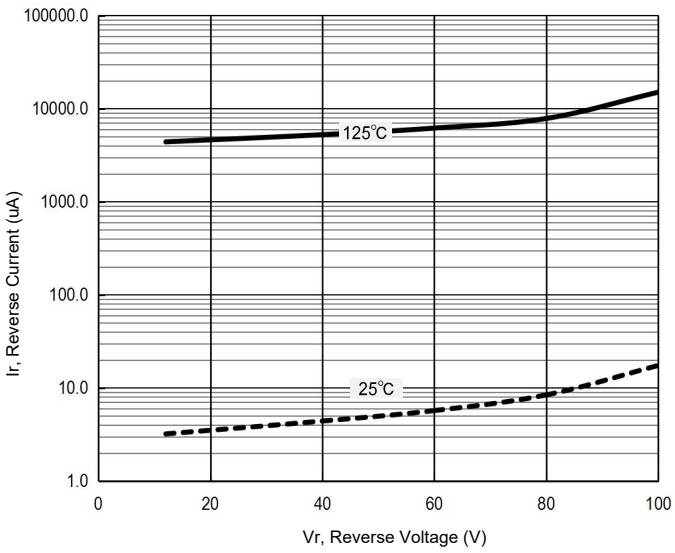


Figure 2:The reverse leak current and the reverse voltage (single-device) curve.



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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

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