

Micro Commercial Components



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MBRD10100

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

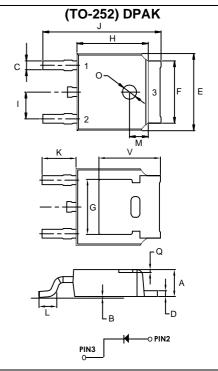
- Operating Temperature:- 55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance (Per Leg): 3℃/W Junction To Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximu m RMS Voltage	Maximum DC Blocking Voltage
MBRD10100	MBRD10100	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	10A	T _C =115°C	
Peak Forward Surge Current	I _{FSM}	180A	8.3ms, half sine	
Maximum Instantaneous Forward Voltage	V _F	0.66V(typ) 0.73V 0.63V	$I_F = 10A$; $T_J = 25^{\circ}C$ $I_F = 10A$; $T_J = 25^{\circ}C$ $I_F = 10A$; $T_J = 125^{\circ}C$	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	50uA 15mA	$T_J = 25^{\circ}\mathbb{C}$ $T_J = 125^{\circ}\mathbb{C}$	

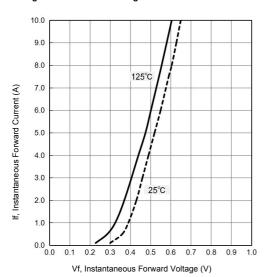
10 Amp Schottky Barrier Rectifier 100 Volts



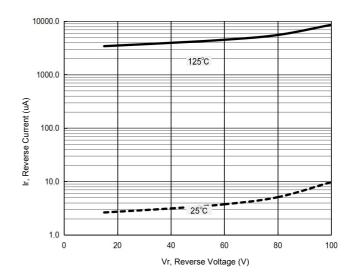
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		
Н	0.236	0.244	6.00	6.20	
- 1	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.114		2.90		
L	0.055	0.067	1.40	1.70	
M	0.063		1.60		
0	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



 $\label{prop:control} \textbf{Figure 2:} \textbf{The reverse leak current and the reverse voltage (single-device) curve.}$





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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