



Micro Commercial Components



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MBRD640CT

Features

- Pb-Free Package
- Extremely Fast Switching
- Extremely Low Forward Drop.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

6 Amp Schottky Barrier Rectifier 40 Volts

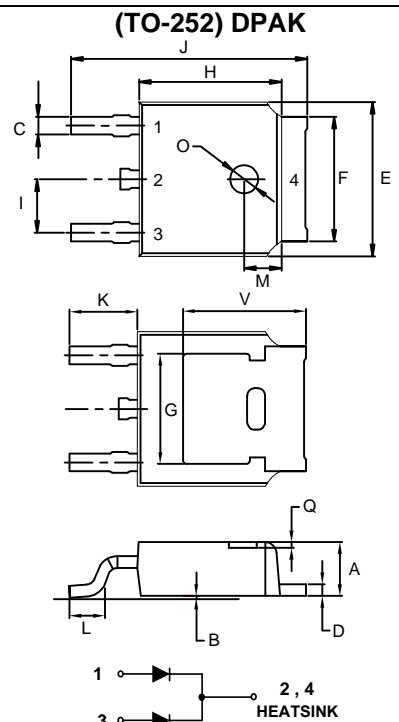
Maximum Ratings

- Operating Temperature: -40°C to +150°C
- Storage Temperature: -40°C to +150°C
- Maximum Thermal Resistance (Per Leg):
3 °C/W Junction To Case

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD640CT	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

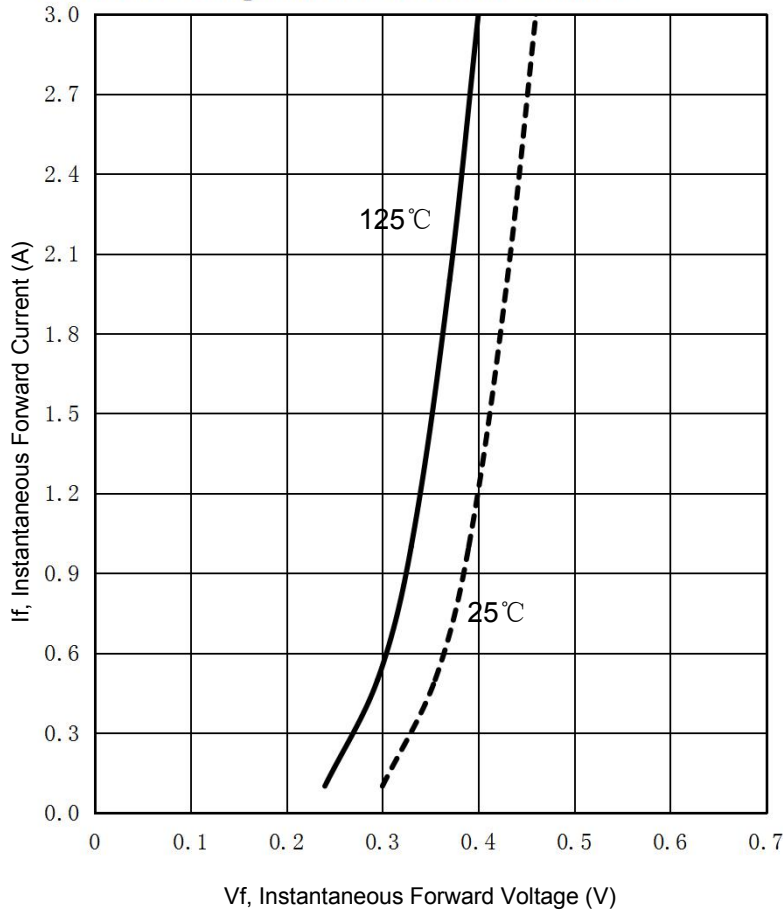
Average Forward Current	$I_{F(AV)}$	6.0A	$T_C = 115^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	78A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	0.54V	$I_F = 3.0\text{A}; T_J = 25^\circ\text{C}$
		0.42V	$I_F = 3.0\text{A}; T_J = 125^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.1mA	$T_J = 25^\circ\text{C}$
		10mA	$T_J = 125^\circ\text{C}$



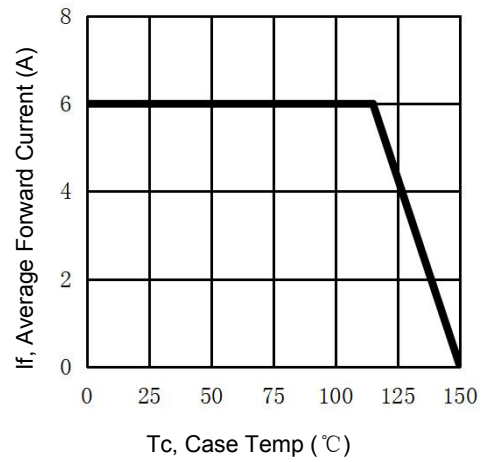
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.087	0.094	2.20	2.40	
B	0.000	0.005	0.00	0.13	
C	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
E	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		
H	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.114		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		

RATINGS AND CHARACTERISTIC

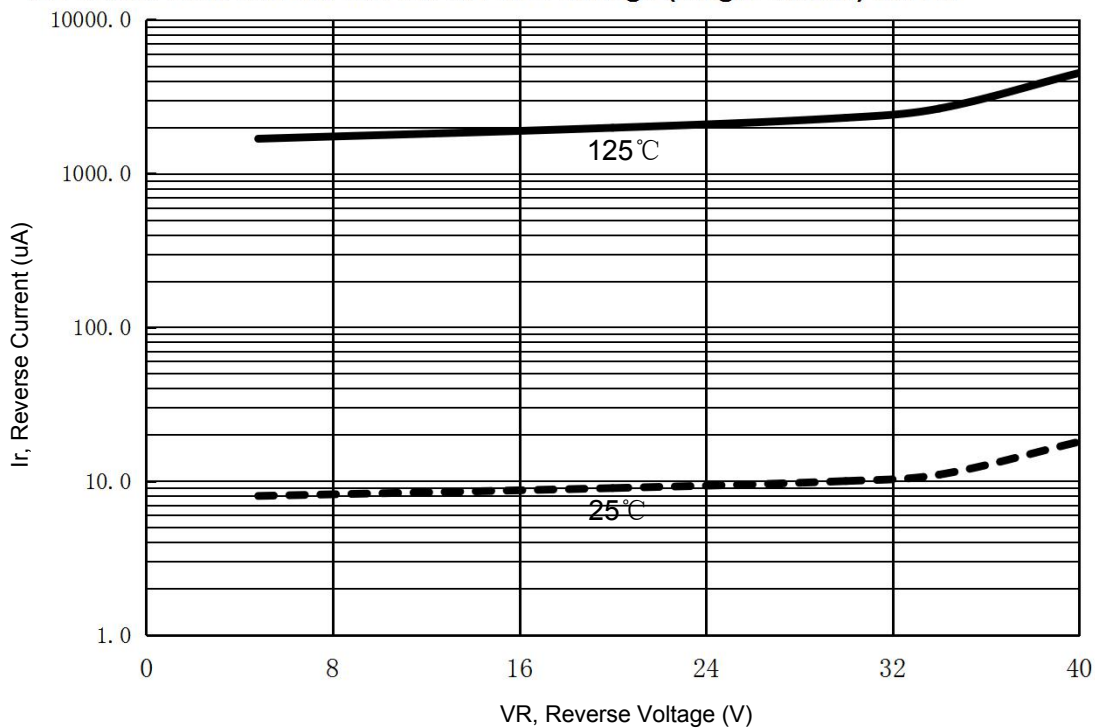
The forward voltage and forward current curve



Current derating curve, per element



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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