



Micro Commercial Components



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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

MBRD1220CT Thru MBRD1245CT

Features

- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking : Type number
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)
- Extremely Low Forward Drop.
- Extremely Fast Switching
- Pb-Free Package

Maximum Ratings

- Operating Temperature(T_J): -65°C to $+150^{\circ}\text{C}$
- Storage Temperature(T_{STG}): -65°C to $+150^{\circ}\text{C}$
- Typical Thermal Resistance: 3.0°C/W Junction to Case

MCC Part Number	Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD1220CT	20	14	20
MBRD1230CT	30	21	30
MBRD1245CT	45	32	45

Electrical Characteristics @ 25°C Unless Otherwise Specified

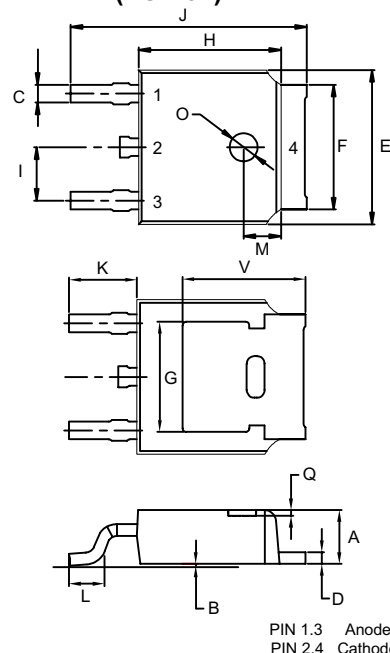
Max average forward rectified current	$I_{F(AV)}$	12A	$T_C = 135^{\circ}\text{C}$
Max surge current	I_{FSM}	150A	8.3ms, half sine
Peak forward voltage	V_{FM}	0.47V 0.45V	$I_{FM} = 6.0\text{A}$ $T_J = 125^{\circ}\text{C}$
Peak reverse current	I_{RM}	0.5mA 50mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$

Marking for example:



12 Amp Schottky Rectifier 20V-45V

(TO-252) DPAK



PIN 1.3 Anode
PIN 2.4 Cathode

DIM	INCHES		MM		NOTE
	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		

Typical Characteristics

FIG.1-Typical Forward Characteristics

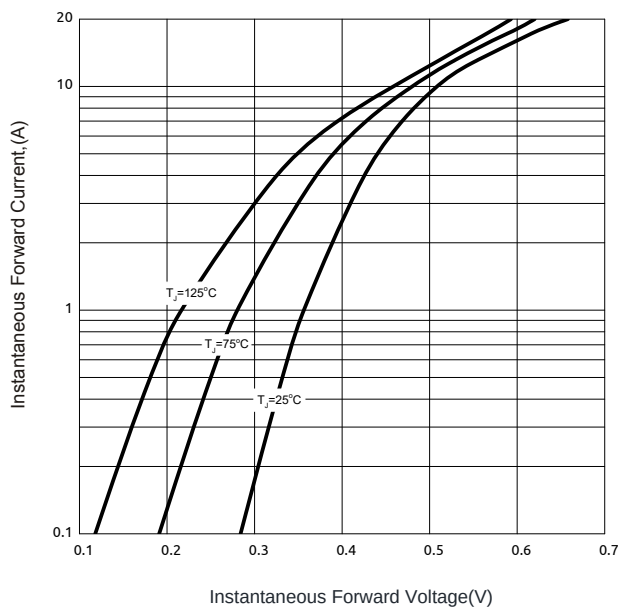
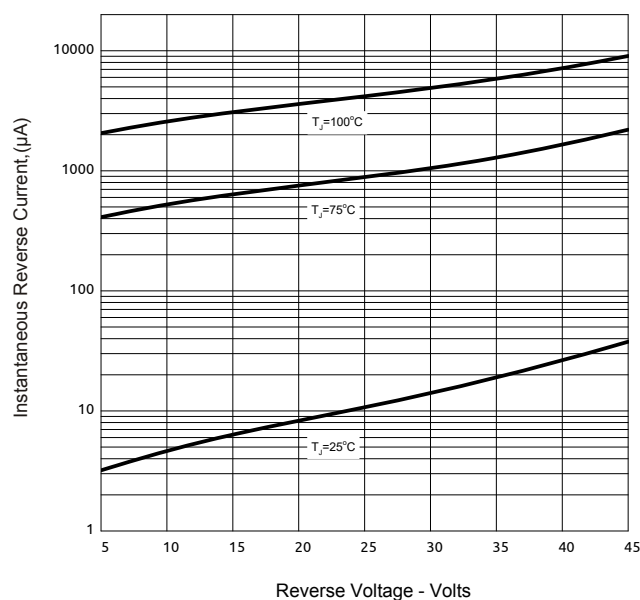


FIG2-Typical Reverse Characteristics



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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