

Features

- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

20 Amp Schottky Barrier Rectifiers 45 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	45	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V_{RMS}	31.5	٧
Average Rectified Forward Current Per Diode Per Device	I _{F(AV)}	10 20	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	130	Α
Current Squared Time @1ms≤t≤8.3ms	I ² t	70	A ² s

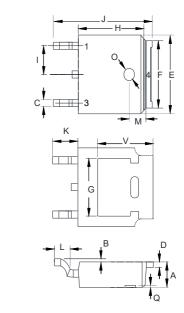
Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol		
1,3	Anode	4			
2,4	Cathode	MCC.	1 • 2,4		
		MBRD2045CT	3 ° HEATSINK		
		2 3			

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

(TO-252) DPAK



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	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		
E	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		
I	0.086	0.094	2.18	2.39		
J	0.386	0.409	9.80	10.40		
K	0.1	0.114		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		5.3	35		



Thermal characteristics

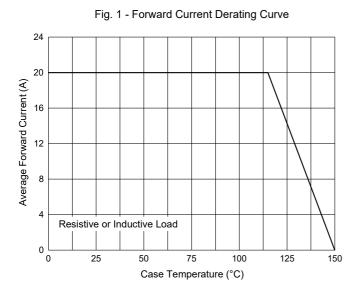
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Per Leg		2.5		°C/W

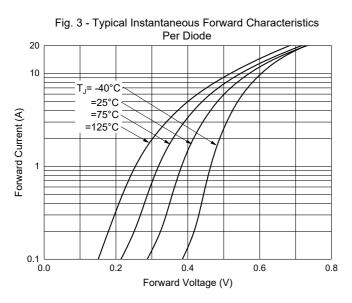
Electrical Characteristics @ 25°C Unless Otherwise Specified

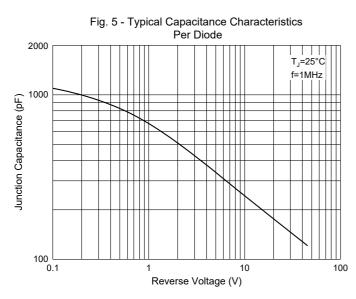
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage Per Diode	V _F	I _F =10A;T _J =25°C I _F =10A;T _J =125°C			0.63 0.58	V
Reverse Current Per Diode	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			0.1 100	mA
Junction Capacitance Per Diode	CJ	V _R =4V;f=1MHz;T _J =25°C		375		pF

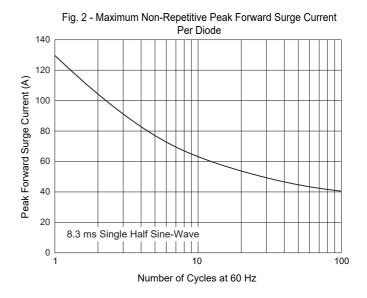


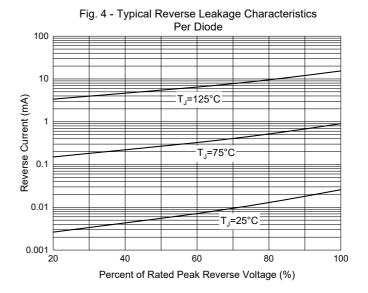
Curve Characteristics













Ordering Information

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

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