

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- High Frequency Operation
- High Surge Forward Current Capability

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance : 5°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage	
MURD1040C	MURD1040C	400V	280V	400V	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current	I _{F(AV)}	10A	T _C =75⁰C
Peak Forward Surge Current	I _{FSM}	125A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.50V	I _F =10A; T _A =25⁰C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	0.01mA 0.1mA	T _A =25⁰C T _A =125⁰C
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A

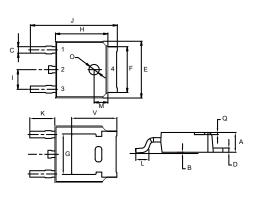
Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a.

Internal Structure

PIN 1 0 PIN 2,4

10 Amp Super Fast Rectifiers 400 Volts

DPAK(TO-252)



DIMENSIONS					
DIM	INC	INCHES		IM	NOTE
	MIN	MAX	MIN	MAX	NOTE
А	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	0.1	90	4.	83	TYP.
Н	0.236	0.244	6.00	6.20	
Ι	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
Κ	0.1	14	2.	90	TYP.
L	0.055	0.067	1.40	1.70	
Μ	0.063		1.60		TYP.
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.2	11	5.	35	TYP.





Curve Characteristics

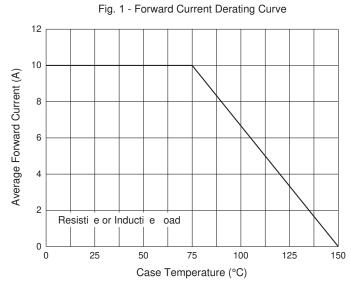
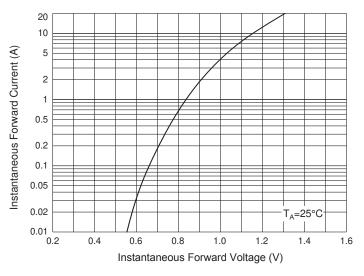


Fig. 3 - Typical Instantaneous Forward Characteristics



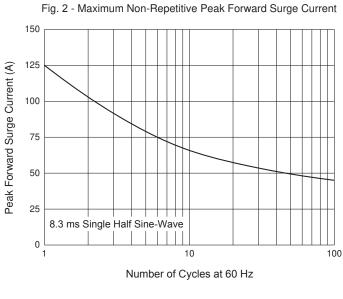
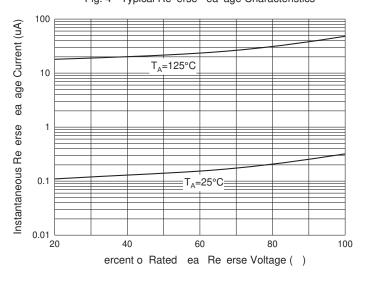


Fig. 4 - Typical Re erse ea age Characteristics





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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