

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- High Efficiency
- · High Reliability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

5 Amp Super Fast Rectifiers 1200 Volts

Maximum Ratings

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

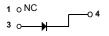
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURD5120	MURD5120	1200V	840V	1200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

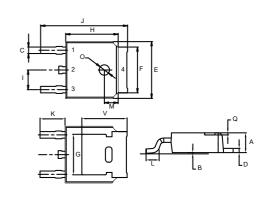
Average Forward Current	I _{F(AV)}	5.0A	T _C = 115°C
Peak Forward Surge Current	I _{FSM}	80A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.7V(Typ) 2.2V(Max) 1.6V(Max)	I_F =5A; T_J =25°C I_F =5A; T_J =25°C I_F =5A; T_J =125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.05μA(Typ) 5.0μA(Max)	Т _J =25°С;
Maximum Rate of Voltage Change	Dv/Dt	10000V/µs	at Rated V _R
Maximum Reverse Recovery Time	t _{rr}	65ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A

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

Internal Structure



DPAK(TO-252)



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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	
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	
М	0.063		1.60		
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	V 0.211		5.35		

T_J=25°C

2.2



Curve Characteristics

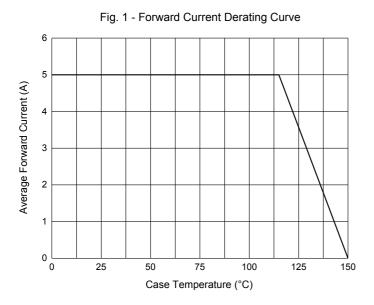
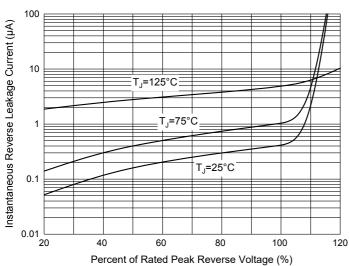


Fig. 3 - Typical Reverse Leakage Characteristics



20 10 Instantaneous Forward Current (A) 0.2 0.1 0.06

0.02 0.01 - 0.4

0.6

8.0

1.0

1.2 1.4

1.6 Instantaneous Forward Voltage (V)

Fig. 2 - Typical Instantaneous Forward 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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