

Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant (Note2) ("P"Suffix Designates Compliant. See Ordering Information)
- High Efficiency
- · High Reliability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

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

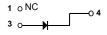
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	5.0A	T _C = 115°C	
Peak Forward Surge Current	I _{FSM}	80A	8.3ms,Half Sine	
Forward Voltage	V _F	1.7V(Typ) 2.2V(Max) 1.6V(Max)	$I_F=5A;T_J=25^{\circ}C$ $I_F=5A;T_J=25^{\circ}C$ $I_F=5A;T_J=125^{\circ}C$	
Reverse Current at Rated V _R	I _R	0.05μA(Typ) 5μA(Max) 100μA(Max)	T _J =25°C; T _J =25°C; T _J =125°C;	
Maximum Reverse Recovery Time	t _{rr}	65ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Forward Recovery Time	t _{fr}	315ns(Typ)	I _F =5A;dI _F /dt=50A/μs; V _{FR} =1.5 x V _{Fmax} ;	
Forward Recovery Voltage	V _{FP}	8.9V(Typ)	T _J =25°C	

Note

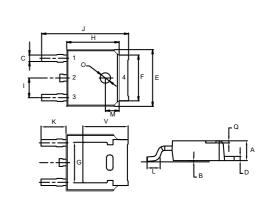
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

Internal Structure



5 Amp Super Fast Rectifiers 1200 Volts

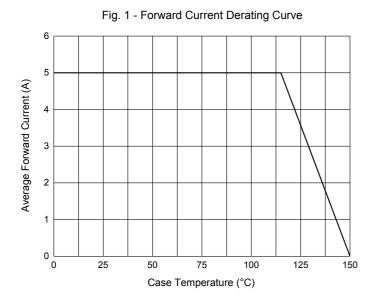




DIMENSIONS						
DIM	INC	INCHES		IM	NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.087	0.094	2.20	2.40		
В	0.000	0.005	0.00	0.13		
С	0.026	0.034	0.66	0.86		
D	0.018	0.023	0.46	0.58		
Е	0.256	0.264	6.50	6.70		
F	0.201	0.215	5.10	5.46		
G	0.190		4.83			
Н	0.236	0.244	6.00	6.20		
I	0.086	0.094	2.18	2.39		
J	0.386	0.409	9.80	10.40		
K	0.114		2.90			
L	0.055	0.067	1.40	1.70		
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		5.35			



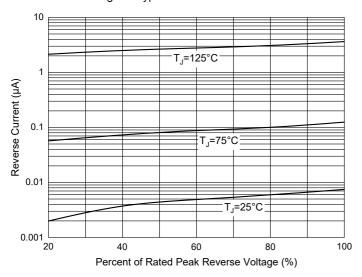
Curve Characteristics



T_J=25°C =75°C =75°C =125°C =125°C =125°C =1.6 2.0 Forward Voltage (V)

Fig. 2 - Typical Forward Characteristics

Fig. 3 - Typical Reverse Characteristics





Ordering Information

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

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