

#### **Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Super Fast Switching For High Efficiency
- Low Reverse Leakage
- High Forward Surge Current Capability

# 5 Amp Super Fast Rectifiers 600 Volts

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°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
MURD560	MURD560	600V	420V	600V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

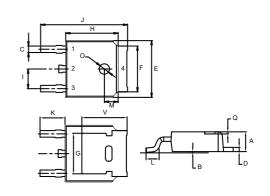
Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle	I <sub>F(AV)</sub>	5.0A	T <sub>C</sub> = 115 <i>»</i> Ô
Peak Forward Surge Current	I <sub>FSM</sub>	110A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.2V(Typ) 1.4V(Max) 1.1V(Max)	I <sub>F</sub> =5A; T <sub>J</sub> =25°C I <sub>F</sub> =5A; T <sub>J</sub> =25°C I <sub>F</sub> =5A; T <sub>J</sub> =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.01mA 0.1mA	T <sub>J</sub> =25°C; T <sub>J</sub> =125°C
Maximum Reverse Recovery Time	t <sub>rr</sub>	35ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>RR</sub> =0.25A

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

## Internal Structure



## **DPAK(TO-252)**



	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	0.114		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	0.211		5.3	35			



## **Curve Characteristics**

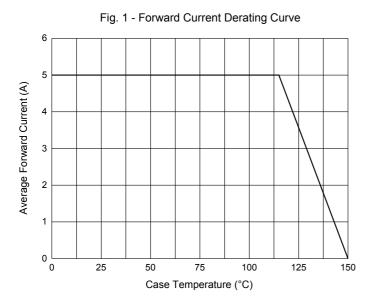


Fig. 3 - Typical Reverse Leakage Characteristics

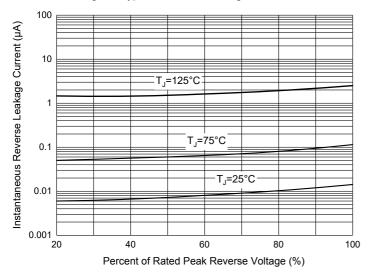


Fig. 2 - Typical Instantaneous Forward Characteristics

(V) tueston of the property of the pr

Instantaneous Forward Voltage (V)



## **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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