

#### **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
- Low Switching Losses and High Efficiency
- Low Reverse Leakage
- Ultrafast Recovery Time
- Planar Structure Die and Soft Recovery Characteristics

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 3°C/W Junction to Case

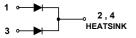
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURSD1040CTA	MURSD1040CTA	400V	280V	400V

## Electrical Characteristics @ 25°C Unless Otherwise Specifie

Average Rectified Forward Current	I <sub>F(AV)</sub>	10A	T <sub>C</sub> = 115°C
Peak Forward Surge Current	I <sub>FSM</sub>	70A	8.3ms,Half Sine
Instantaneous Forward Voltage	V <sub>F</sub>	1.08V(Typ) 1.25V(Max) 1.05V(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>	5μΑ 50μΑ	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
Typical Junction Capacitance	CJ	35pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

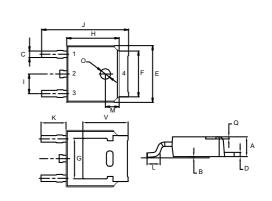
Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

#### **Internal Structure:**



# 10 Amp FRED Rectifiers 400 Volts

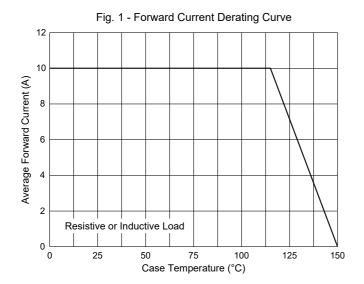
# **DPAK(TO-252)**

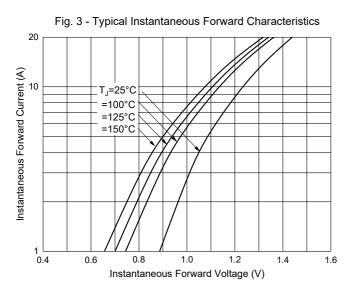


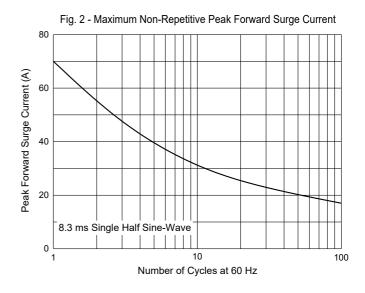
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.087	0.094	2.20	2.40		
В	0.000	0.005	0.00	0.13		
С	0.026	0.034	0.66	0.86		
D	0.018	0.023	0.46	0.58		
Е	0.256	0.264	6.50	6.70		
F	0.201	0.215	5.10	5.46		
G	0.190		4.83			
Н	0.236	0.244	6.00	6.20		
ı	0.086	0.094	2.18	2.39		
J	0.386	0.409	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		5.35			

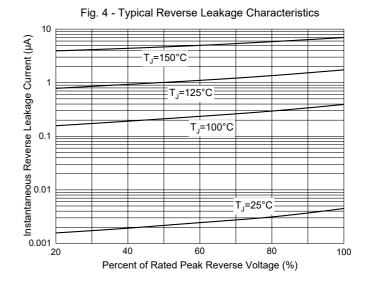


#### **Curve Characteristics**











## **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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