

Features

- Halogen Free. "Green" Device (Note1)
- Lead Free Finish/RoHS Compliant (Note2) ("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

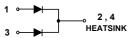
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURSD1640CTA	MURSD1640CTA	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specifie

Average Rectified Forward Current	I _{F(AV)}	16A	T _C = 90°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	1.19V(Typ) 1.25V(Max) 1.10V(Max)	I _F =8A; T _J =25°C I _F =8A; T _J =25°C I _F =8A; T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A
Typical Junction Capacitance	СЈ	40pF	Measured at 1.0MHz, V _R =4.0V

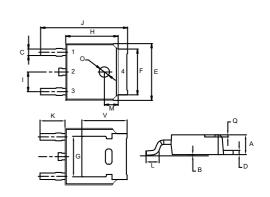
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure:



16 Amp FRED Rectifiers 400 Volts

DPAK(TO-252)

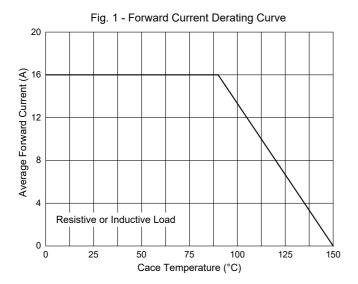


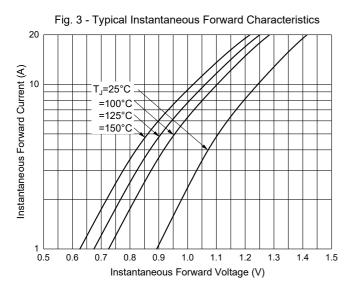
	DIMENSIONS							
DIM	INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE			
Α	0.087	0.094	2.20	2.40				
В	0.000	0.005	0.00	0.13				
С	0.026	0.034	0.66	0.86				
D	0.018	0.023	0.46	0.58				
E	0.256	0.264	6.50	6.70				
F	0.201	0.215	5.10	5.46				
G	0.190		4.83					
Н	0.236	0.244	6.00	6.20				
I	0.086	0.094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

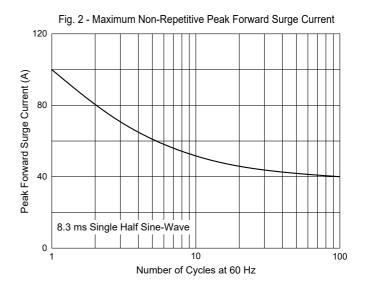
^{2.} High temperature solder exemption applied, see EU directive annex 7a.

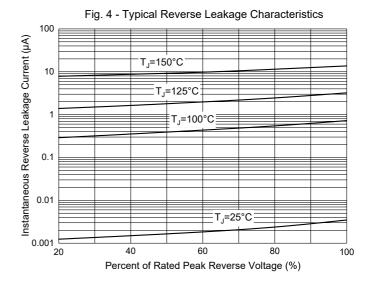


Curve Characteristics











Ordering Information

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

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