

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 +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 5°C/W Junction to Case

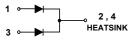
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MURSD1620CTA	MURSD1620CTA	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specifie

Average Rectified Forward Current	I _{F(AV)}	16A	T _C =100°C	
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Hal	f Sine
Instantaneous Forward Voltage	V _F	0.9V(Typ) 1.0V(Max) 0.85V(Max)	' '	T _J =25°C T _J =25°C T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5uA 50uA	T _J =25°C; T _J =125°C	
Typical Junction Capacitance	CJ	65pF	Measured at 1.0MHz, V _R =4.0V	
Reverse Recovery	t _{rr}	25ns(Typ.) 35ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Time		20ns(Typ.) 36ns(Typ.)	T _J =25°C T _J =125°C	1 -0 4
Peak recovery current	I _{RRM}	3.7A(Typ.) 6.6A(Typ.)	T _J =25°C T _J =125°C	I _F =8A di _F /dt=-200A/µs V _R =100 V
Reverse recovery charge	Q _{rr}	43nC(Typ.) 120nC(Typ.)	T _J =25°C T _J =125°C	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1

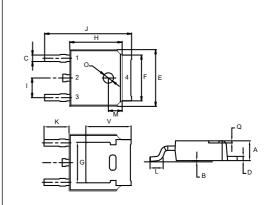
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure:



16 Amp FRED Rectifiers 200 Volts

DPAK(TO-252)

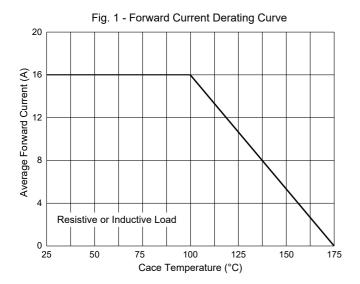


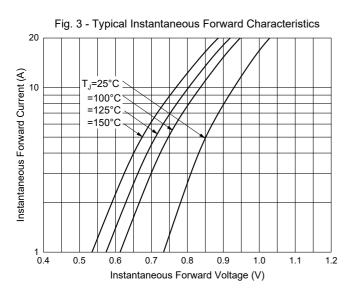
DIMENSIONS					
	INCHES		MM		NOTE
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.1	0.190		83	
Н	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
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		5.3	35	

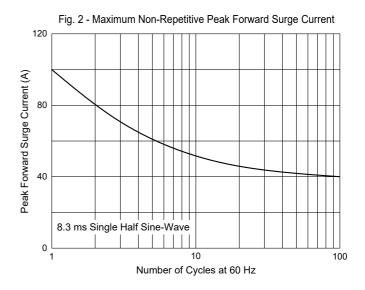
^{2.} High temperature solder exemption applied, see EU directive annex 7a.

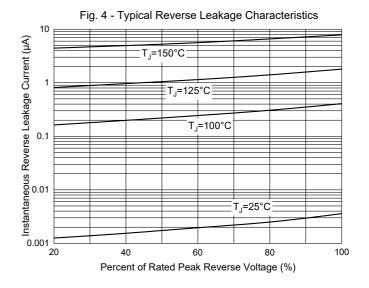


Curve Characteristics











Ordering Information

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

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