

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

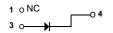
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURSD540A	MURSD540A	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current	I _{F(AV)}	5A	T _C =140°C	,
Peak Forward Surge Current	I _{FSM}	70A	8.3ms,Hal	f Sine
Instantaneous Forward Voltage	V _F	1.08V(Typ) 1.25V(Max) 1.05V(Max)	I _F =5A; T	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	35pF	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		30ns(Typ.) 46ns(Typ.)	T _J =25°C T _J =125°C	1 -5 4
Peak recovery current	I _{RRM}	3.1A(Typ.) 5.1A(Typ.)	T _J =25°C T _J =125°C	I _F =5Α di _F /dt=-200Α/μs V _R =200 V
Reverse recovery charge	Q _{rr}	47nC(Typ.) 120nC(Typ.)	T _J =25°C T _J =125°C	

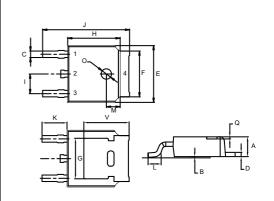
Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

Internal Structure



5 Amp FRED Rectifiers 400 Volts

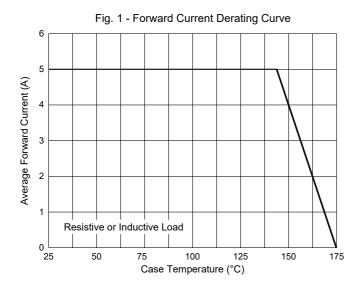
DPAK(TO-252)

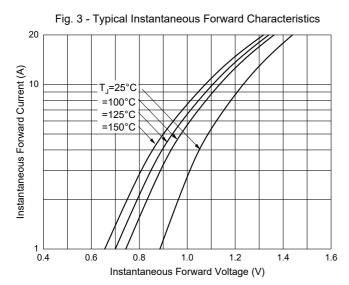


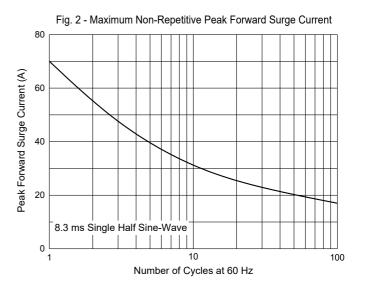
DIMENSIONS					
DIM	INC	INCHES		IM	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.1	0.190		83	
Н	0.236	0.244	6.00	6.20	
ı	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80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

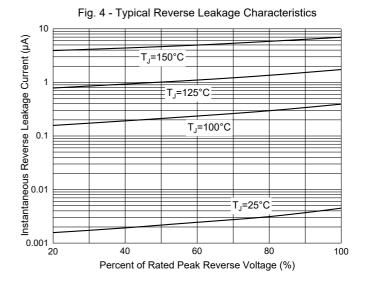


Curve Characteristics









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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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