

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
MURSD1020A	MURSD1020A	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

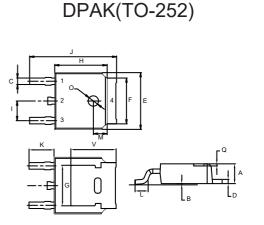
Average Rectified Forward Current	I _{F(AV)}	10A	T _C = 120°C
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	0.92V(Typ) 1.0V(Max) 0.86V(Max)	I _F =10A;T _J =25⁰C I _F =10A;T _J =25⁰C I _F =10A;T _J =125⁰C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	T _J =25⁰C; T _J =125⁰C
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A
Typical Junction Capacitance	CJ	150pF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure

1 o NC -04 3 0-

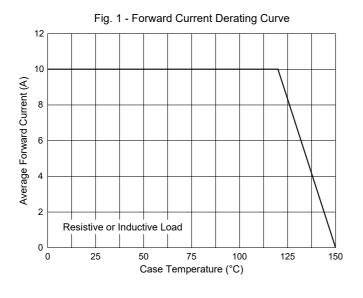
10 Amp FRED Rectifiers 200 Volts



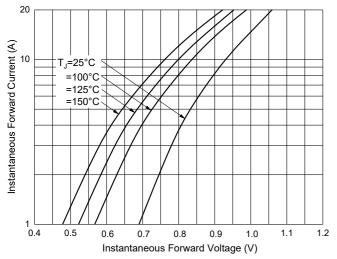
DIMENSIONS					
DIM	INC	INCHES		IM	NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.1	0.190		83	
Н	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40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

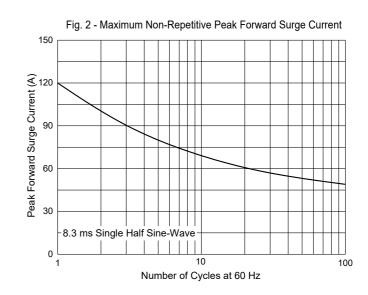


Curve Characteristics

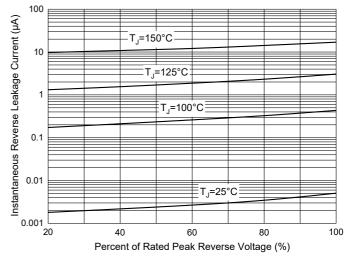














Ordering Information

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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