

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 Forward Voltage Drop
- Fast Reverse 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: 5°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage	
MURSD1060L	MURSD1060L	600V	420V	600V	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current	I _{F(AV)}	10A	T _C = 85°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.1V(Typ) 1.3V(Max) 1.1V(Max)	I _F =10A;T _J =25°C I _F =10A;T _J =25°C I _F =10A;T _J =150°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 200μΑ	T _J =25⁰C; T _J =150ºC
Typical Junction Capacitance	CJ	115pF	Measured at 1.0MHz, V _R =4.0V

Dynamic Recovery Characteristics @ 25°C Unless Otherwise Specified

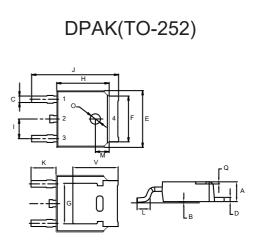
Reverse Recovery	t _{rr}	40ns(Typ.) 75ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Time		160ns(Typ.) 250ns(Typ.)	Tյ=25⁰C Tյ=125⁰C	10.4
Peak recovery current	I _{RRM}	6.5A(Typ.) 10A(Typ.)	Tյ=25⁰C Tյ=125⁰C	I _F = 10 A di _F /dt = 200 A/μs V _R = 200 V
Reverse recovery charge	Q _{rr}	565nC(Typ.) 1250nC(Typ.)	T _J =25⁰C T _J =125⁰C	

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

Internal Structure



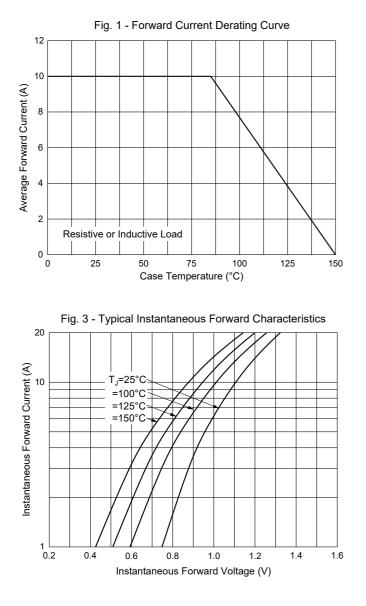
10 Amp FRED Rectifiers 600 Volts

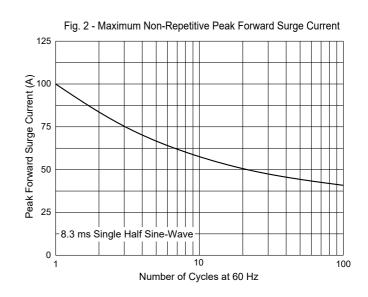


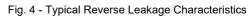
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.8	33	
Н	0.236	0.244	6.00	6.20	
	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
Κ	0.114		2.9	90	
L	0.055	0.067	1.40	1.70	
М	0.063		1.0	60	
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.211		5.3	35	

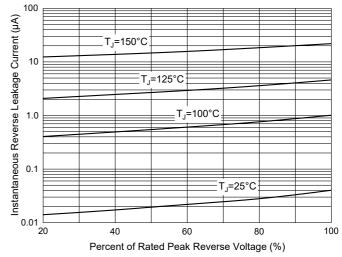


Curve Characteristics











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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