

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 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	Maximum RMS Voltage	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 =25°C; T _J =150°C
Typical Junction Capacitance	CJ	115pF	Measured at 1.0MHz, V _R =4.0V

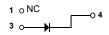
Dynamic Recovery Characteristics @ 25°C Unless Otherwise Specified

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.)	T _J =25°C T _J =125°C	$I_F = 10 \text{ A}$ $di_F/dt = 200 \text{ A/}\mu\text{s}$ $V_R = 200 \text{ V}$
Peak recovery current	I _{RRM}	6.5A(Typ.) 10A(Typ.)	T _J =25°C T _J =125°C	
Reverse recovery charge	Q _{rr}	565nC(Typ.) 1250nC(Typ.)	T _J =25°C T _J =125°C	

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

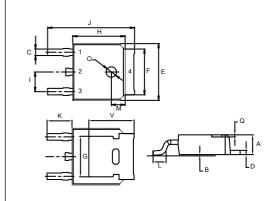
2. High temperature solder exemption applied, see EU directive annex 7a.

Internal Structure



10 Amp FRED Rectifiers 600 Volts

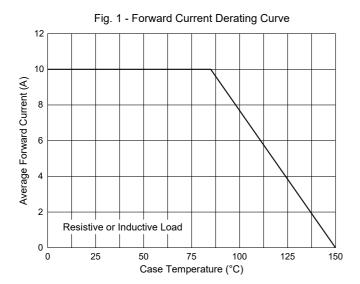
DPAK(TO-252)

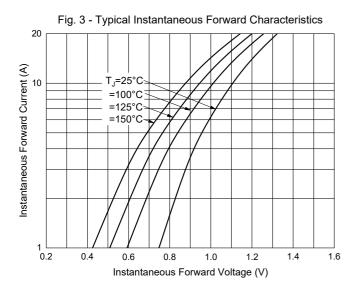


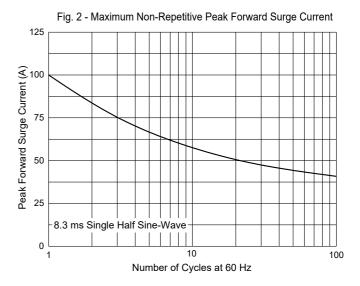
DIMENSIONS					
	INC			IM	
DIM	MIN	INCHES MIN MAX		MAX	NOTE
Λ	0.087	0.094	MIN 2.20	2.40	
A					
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.8	83	
Н	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.114		2.9	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	

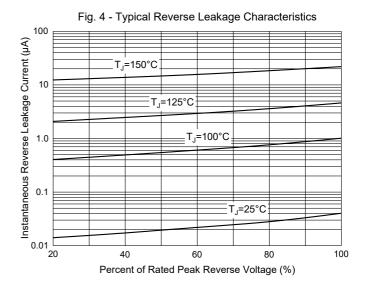


Curve Characteristics











Ordering Information

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

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