

Features

- Halogen Free. "Green" Device (Note 1)
- Ultrafast Reverse Recovery Time
- Low Switching Losses, High Efficiency
- Lead Free Finish/RoHS Compliant(Note 2)("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 8.0 °C/W Junction to Case
- Typical Thermal Resistance: 50 °C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Iviaximum	Maximum DC Blocking Voltage
MUR5U60	MUR5U60	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

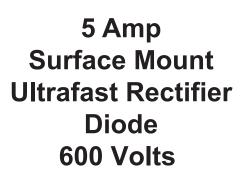
Average Forward Current	I _{F(AV)}	5A	Tc = 100°C
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Half Sine
Forward Voltage	V _F	1.2V(Typ.) 1.5V(Max.) 0.98V(Typ.) 1.25V(Max.)	I _F =5A; T _J =25°C I _F =5A; T _J =25°C I _F =5A; T _J =125°C I _F =5A; T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5uA 50uA	Tյ=25⁰C Tj=125⁰C
Typical Junction Capacitance	CJ	50pF	Measured at 1.0MHz, V _R =4.0V
Current Squared Time	I ² T	60 A ² s	1ms≤t<8.3ms T _J =25ºC
Maximum Reverse Recovery Time		50ns	I _F =0.5A; I _R =1.0A; Irr=0.25A

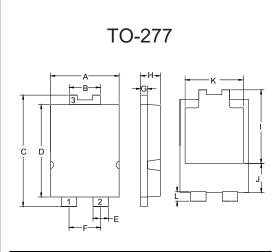
Notes:

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

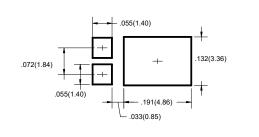
PIN 3 out	• PIN 2
HEAT SINK	oPIN 1





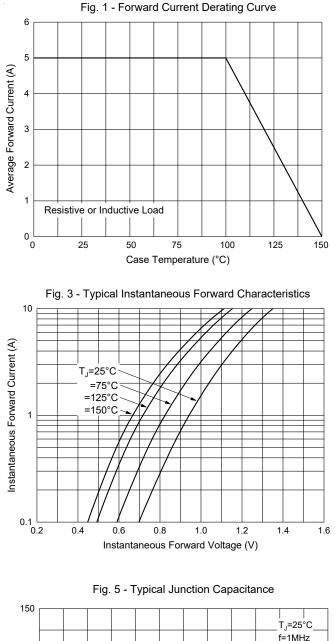
	DIMENSIONS				
DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
Α	0.154	0.161	3.90	4.10	
В	0.067	0.075	1.70	1.90	
С	0.252	0.260	6.40	6.60	
D	0.209	0.217	5.30	5.50	
E	0.031	0.039	0.80	1.00	
F	0.071	0.075	1.80	1.90	
G	0.014	0.018	0.35	0.45	
Н	0.043	0.047	1.10	1.20	
I	0.161	0.177	4.10	4.50	
J	0.059	0.075	1.50	1.90	
K	0.114	0.134	2.90	3.40	
L	0.022	0.030	0.55	0.75	

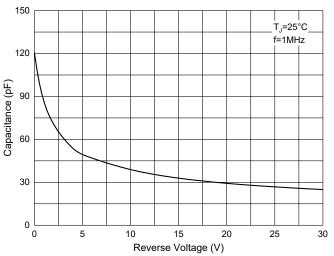
Suggested Solder Pad Layout

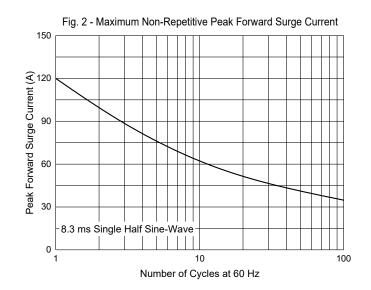


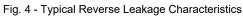


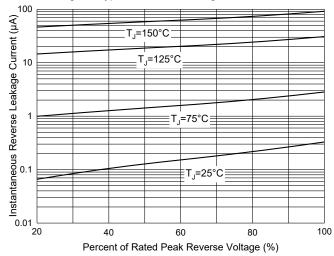
Curve Characteristics













Ordering Information

	Device	Packing
Part Number-TP		Tape&Reel: 4Kpcs/Reel

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