

8A, 600V Glass Passivated Low VF Super Fast Rectifier

FEATURES

- Low conduction loss for high efficiency
- Excellent high temperature stability
- High forward surge capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

1 2





TYPICAL APPLICATIONS

MUR8L60 is especially suited as boost diode in discontinuous mode power factor correction or as a free wheeling diode in other power supply applications.

MECHANICAL DATA

Case: TO-220AC

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meets JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 0.56 Nm maximum

Weight: 1.85g (approximately)

TO-220AC			
PIN 1 O			
PIN 2 O	CASE		

PARAMETER	SYMBOL	MUR8L60	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum RMS Voltage	V _{RMS}	420	V
Maximum DC Blocking Voltage	V _{DC}	600	V
Maximum average forward rectified current	I _{F(AV)}	8	A
Non-repetitive peak forward surge current 8.3ms single sine-wave	I _{FSM}	100	А
Maximum instantaneous forward voltage (Note I _F = 8 A	1) V _F	1.3	V
Maximum reverse current @ rated V_R $T_J=25$		5 200	μА
Maximum reverse recovery time I _F =0.5A, I _R =1A, I _{RR} =0.25A	t _{rr}	65	ns
T	R _{eJC}	2.5	2004
Typical thermal resistance	$R_{\theta JA}$	7.0	°C/W
Operating junction temperature range	T _J	- 55 to +175	°C
Storage temperature range	T _{STG}	- 55 to +175	°C

Note 1: Pulse test with PW=300µs, 1% duty cycle

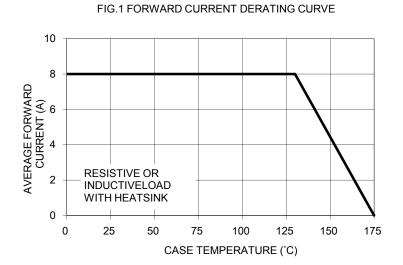


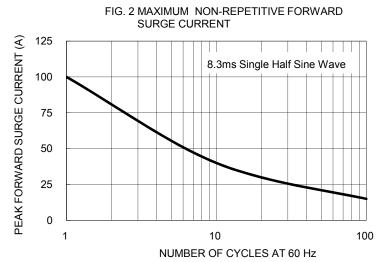
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
MUR8L60	Н	C0	G	TO-220AC	50 / Tube

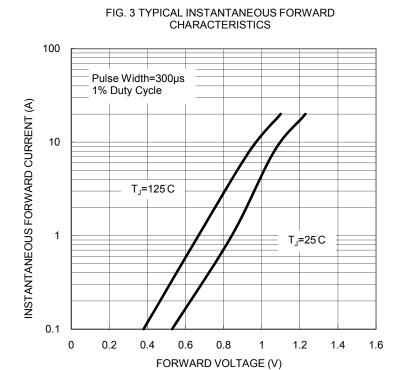
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
MUR8L60HC0G	MUR8L60	н	C0	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







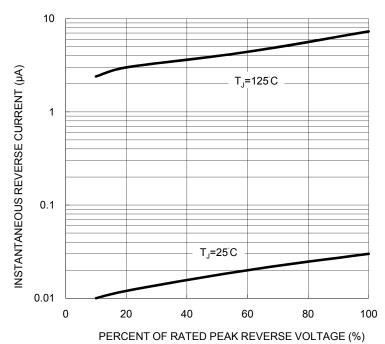


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

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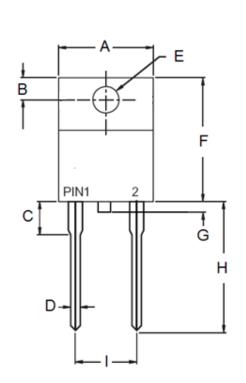


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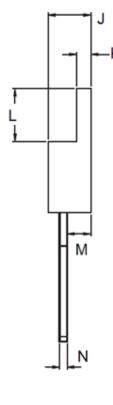
1000 TOWOCITANOE (P) 100 T

FIG. 5 TYPICAL JUNCTION CAPACITANCE

PACKAGE OUTLINE DIMENSIONS TO-220AC



F



100

10

REVERSE VOLTAGE (V)

DIM.	Unit	(mm)	Unit (inch)	
	Min	Max	Min	Max
Α	-	10.50	1	0.413
В	2.62	3.44	0.103	0.135
С	2.80	4.20	0.110	0.165
D	0.68	0.94	0.027	0.037
Е	3.54	4.00	0.139	0.157
F	14.60	16.00	0.575	0.630
G	0.00	1.60	0.000	0.063
Н	13.19	14.79	0.519	0.582
I	4.95	5.20	0.195	0.205
J	4.42	4.76	0.174	0.187
K	1.14	1.40	0.045	0.055
L	5.84	6.86	0.230	0.270
М	2.20	2.80	0.087	0.110
N	0.35	0.64	0.014	0.025

MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound
YWW = Date Code

= Factory Code



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