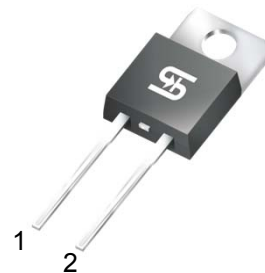


8A, 600V Glass Passivated Low VF Super Fast Rectifier

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


TO-220AC


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)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)			
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	A
Maximum instantaneous forward voltage (Note 1) I _F = 8 A	V _F	1.3	V
Maximum reverse current @ rated V _R T _J =25°C T _J =125°C	I _R	5	μA
		200	
Maximum reverse recovery time I _F =0.5A, I _R =1A, I _{RR} =0.25A	t _{rr}	65	ns
Typical thermal resistance	R _{θJC}	2.5	°C/W
	R _{θJA}	7.0	
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	H	C0	G	TO-220AC	50 / Tube

EXAMPLE

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

RATINGS AND CHARACTERISTICS CURVES

($T_A=25^{\circ}\text{C}$ unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

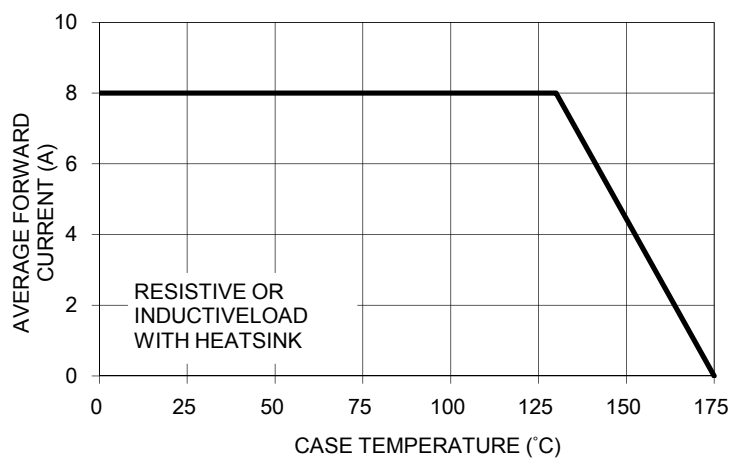


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

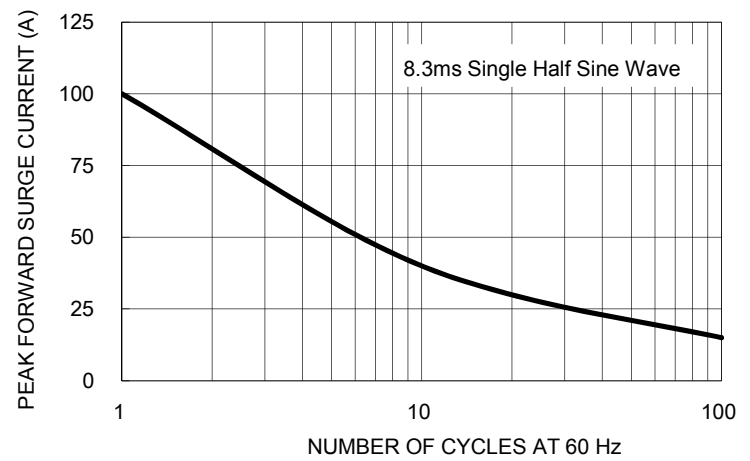


FIG. 3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

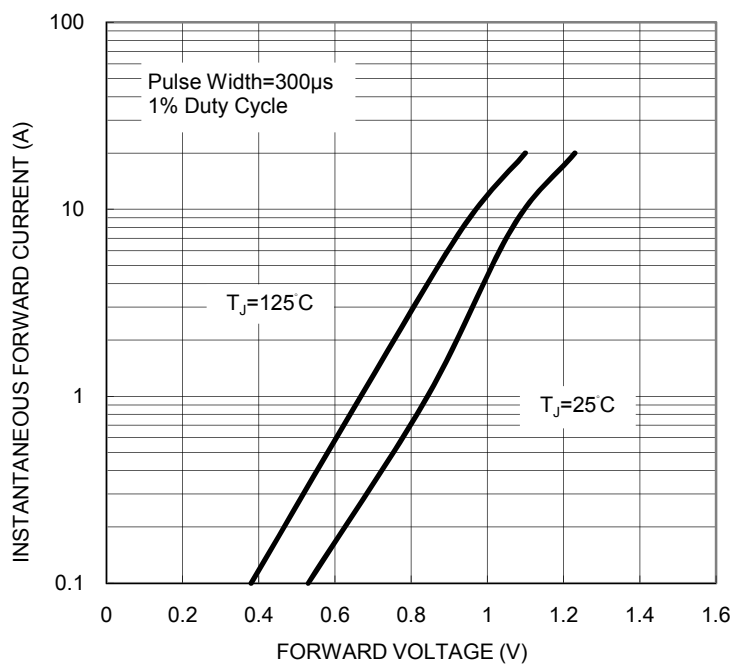


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

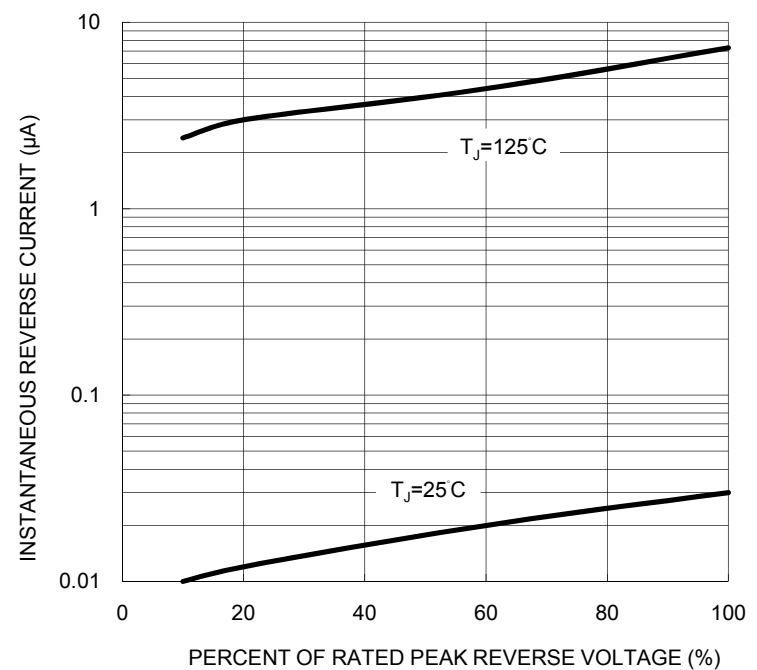
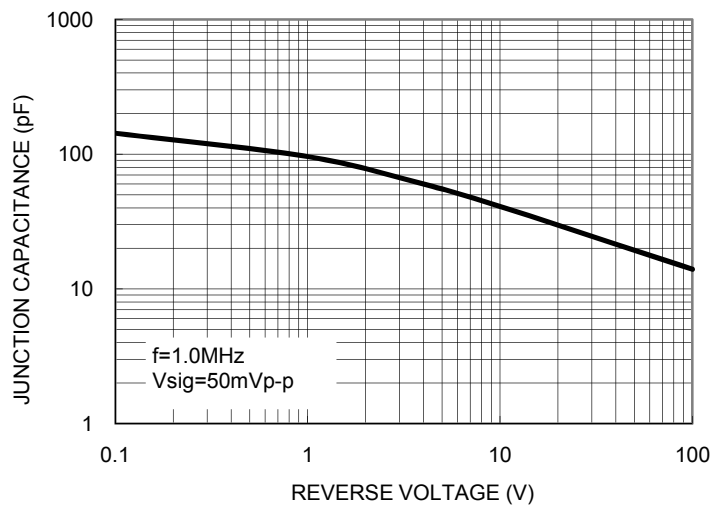
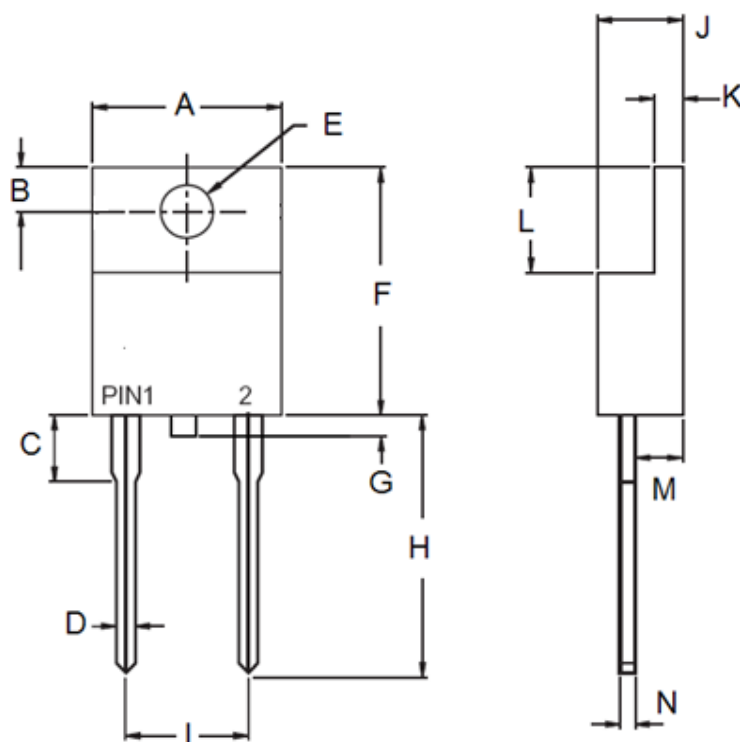


FIG. 5 TYPICAL JUNCTION CAPACITANCE



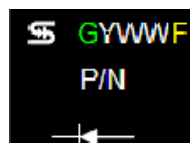
PACKAGE OUTLINE DIMENSIONS

TO-220AC



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	-	10.50	-	0.413
B	2.62	3.44	0.103	0.135
C	2.80	4.20	0.110	0.165
D	0.68	0.94	0.027	0.037
E	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
H	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
M	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
F = Factory Code

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<http://moschip.ru/get-element>

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