A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR

MUR160(LS)

SUPER FAST GLASS PASSIVATED RECTIFIER

REVERSE VOLTAGE – 600 Volts FORWARD CURRENT – 1.0 Amperes

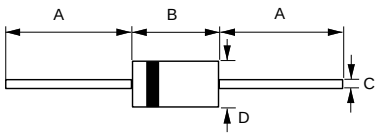
FEATURES

- Glass passivated chip
- Super fast switching time for high efficiency
- Low forward drop and high current capability
- Low reverse leakage current
- Qualified according to AEC-Q101 Rev_C
- Plastic material has UL flammability classification 94V-0
- **Lead-Free Finish; RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**

MECHANICAL DATA

- Package: JEDEC DO-41 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.012 ounces, 0.34 grams (Approximate)
- Mounting Position: Any

DO-41



DO-41		
DIM.	MIN.	MAX.
A	25.40	--
B	4.10	5.20
C	0.71Ø	0.86Ø
D	2.00Ø	2.70Ø
All dimension in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS		SYMBOL	MUR160	UNIT
Maximum Recurrent 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	@T_L = 120°C	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)		I_{FSM}	35	A
Maximum forward Voltage at IF 1.0A DC	T_J = 25°C T_J = 150°C	V_F	1.25 1.05	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_J = 25°C T_J = 150°C	I_R	5 150	uA
Reverse Recovery Time (Note 4)		T_{RR}	50	nS
Typical Junction Capacitance (Note 5)		C_J	27	pF
Typical Thermal Resistance (Note 6)		$RthJ_A$ $RthJ_L$ $RthJ_C$	60 20 12	°C/W
Operating Temperature Range		TJ	-55 to +150	°C
Storage Temperature Range		TSTG	-55 to +150	°C

REV. 1 , Nov-2021, KDGC05

Note:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
4. Measured with IF=0.5A,IR=1A,IRR=0.25A.
5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
6. Thermal Resistance Junction to Ambient, Lead and Case.

RATING AND CHARACTERISTIC CURVES
MUR160

FIG.1 - FORWARD CURRENT DERATING CURVE

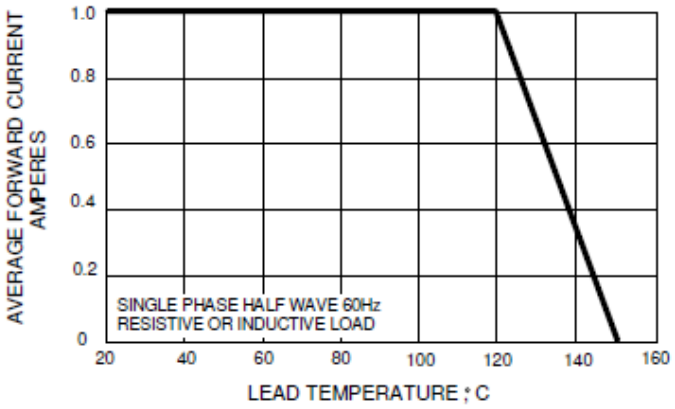


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

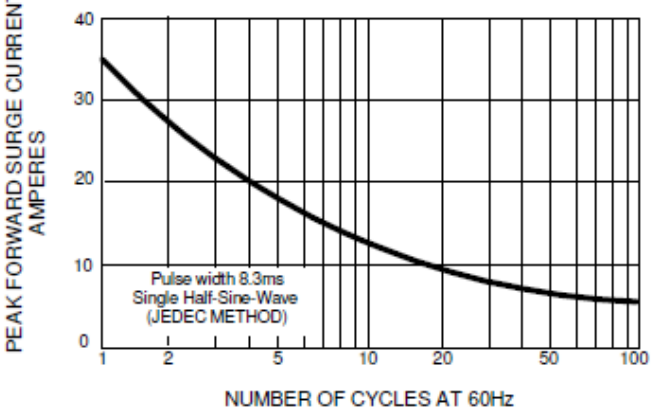


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

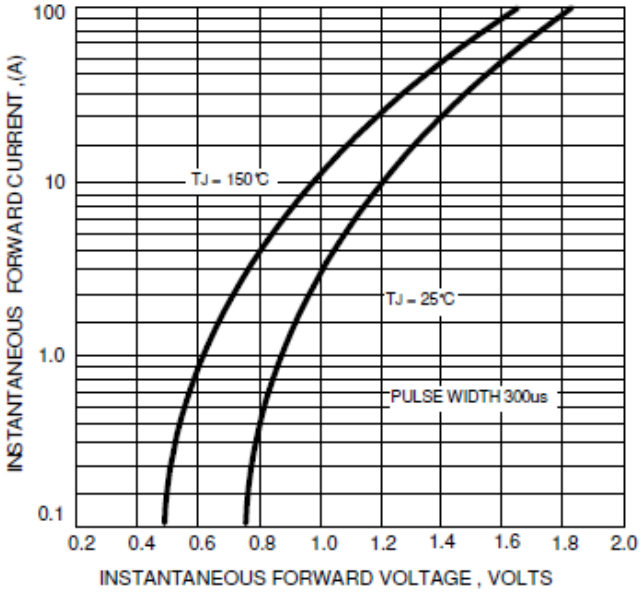


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

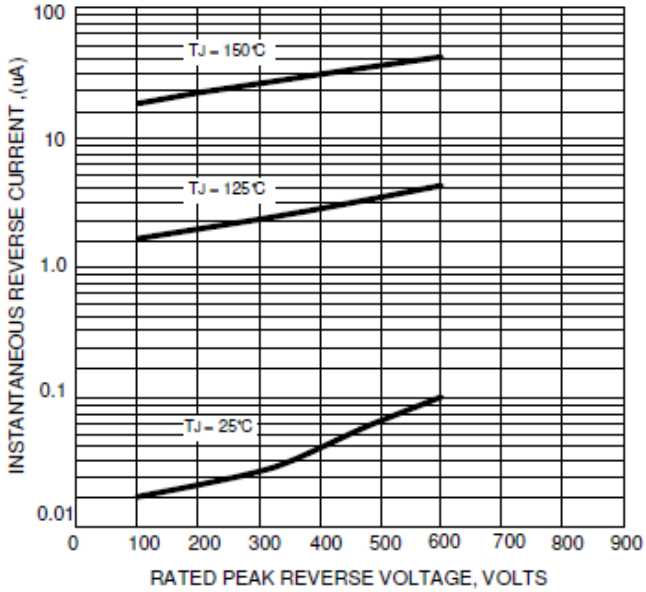
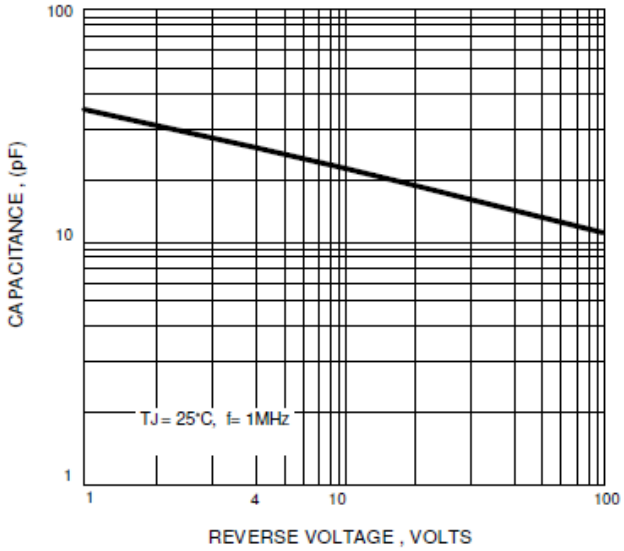


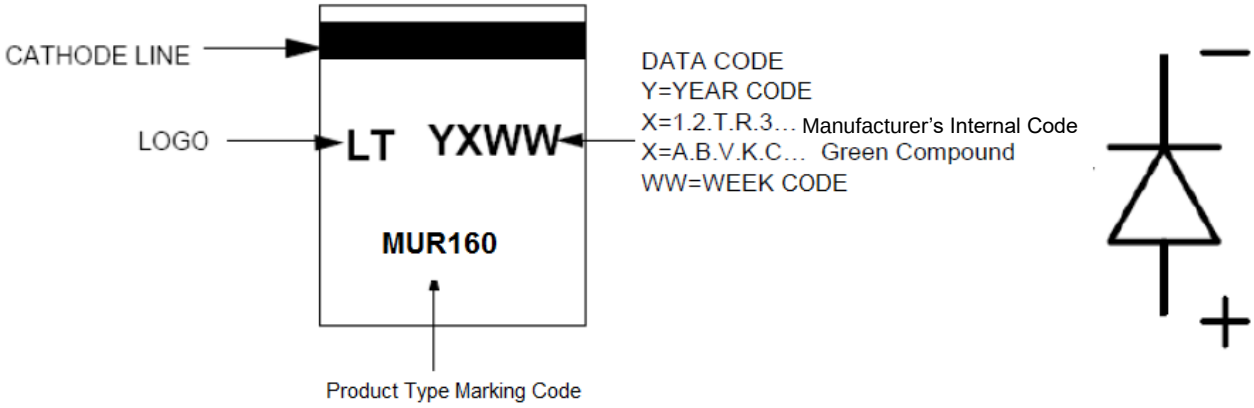
FIG.5 - TYPICAL JUNCTION CAPACITANCE



Ordering Information :

Part Number	Package	Packing	
		Qty.	Carrier
MUR160	DO-41	5000	Tape & Reel
MUR160-A52	DO-41	3000	Ammo Box

Marking Information :



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