LITE-ON SEMICONDUCTOR

MUR460

SUPER FAST
GLASS PASSIVATED RECTIFIER

REVERSE VOLTAGE – 600 Volts
FORWARD CURRENT – 4.0 Amperes

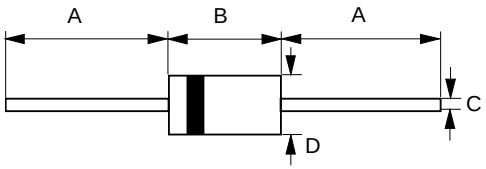
FEATURES

- Glass passivated chip
- Super fast switching time for high efficiency
- Low forward drop and high current capability
- Low reverse leakage current

MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic
- Case Material: molding compound, UL flammability classification 94V-0
- Polarity: Color band denotes cathode
- Weight: 0.04 ounces, 1.0675 grams(Approximate)
- Mounting Position: Any

DO-201AD



DO-201AD		
DIM.	MIN.	MAX.
A	25.40	--
B	7.30	9.50
C	1.20Ø	1.30Ø
D	4.80Ø	5.30Ø
All dimension in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	600	V
Maximum DC blocking voltage		V_{DC}	600	V
Maximum Average rectified output current per device	@T_L = 120℃	$I_{F(AV)}$	4.0	A
Peak forward surge current single half sine-wave	@tp=8.3ms @tp=1ms	I_{FSM}	110 220	A
Peak Repetitive Forward Current (Square wave, 20KH_Z , duty cycle 50%, T_L=120℃)		I_{FRM}	4.2	A
I^2t Rating for fusing (3ms ≦ t ≦ 8.3ms)		I^2t	50	A^2S
Operating and storage temperature range		T_J ,T_{STG}	-55 to +175	℃

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	MAX	UNIT
Forward voltage (Note1)	I_F = 4A	T_J = 25℃	V_F	1.28	V
Leakage current	V_R = 600V	T_J = 25℃ T_J = 125℃	I_R	10 250	uA
Typical junction capacitance (Note2)			C_J	40	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note3)	$RthJ_L$ $RthJ_C$ $RthJ_a$	11 8 30	℃/W

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	MAX	Unit
Reverse recovery time	I_F= 0.5A, I_{rr}= 0.25A, I_R =1.0A	T_J=25℃	T_{RR}	50	nS

Note :

(1) 300us pulse width, 2% duty cycle.
(2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
(3) Measured point from body 1mm by lead.

REV. 10 , Aug-2015, KDGF09

RATING AND CHARACTERISTIC CURVES
MUR460

LITEON

FIG.1- FORWARD CURRENT DERATING CURVE

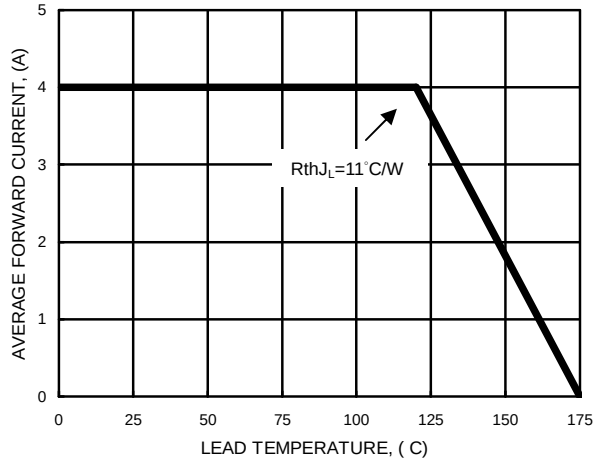


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

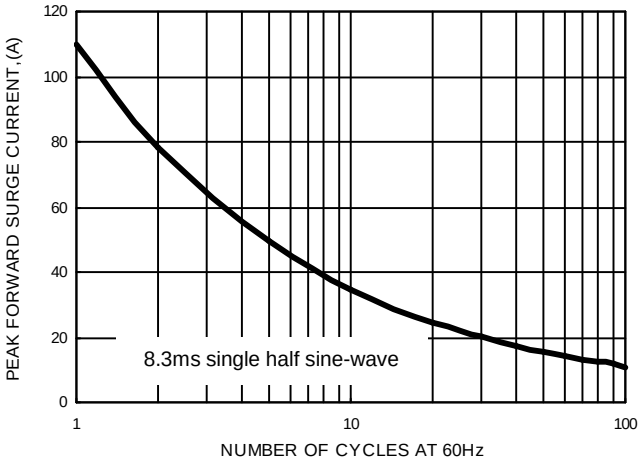


FIG.3- TYPICAL FORWARD CHARACTERISTICS

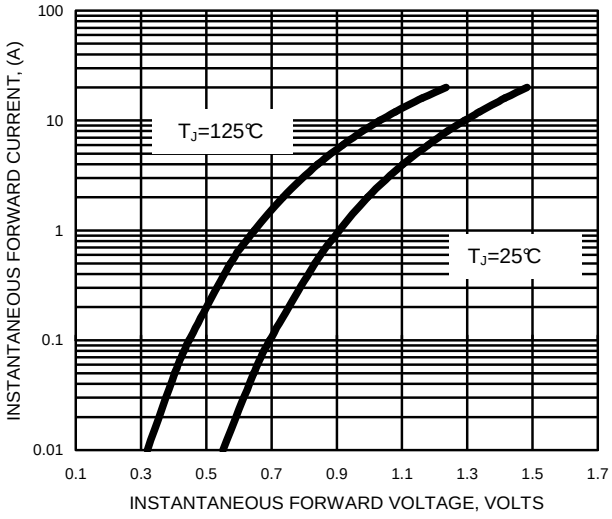


FIG.4- TYPICAL JUNCTION CAPACITANCE

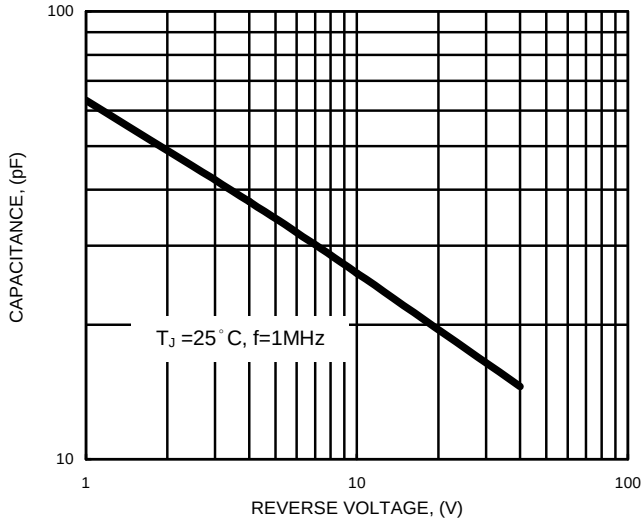


FIG.5- TYPICAL REVERSE CHARACTERISTICS

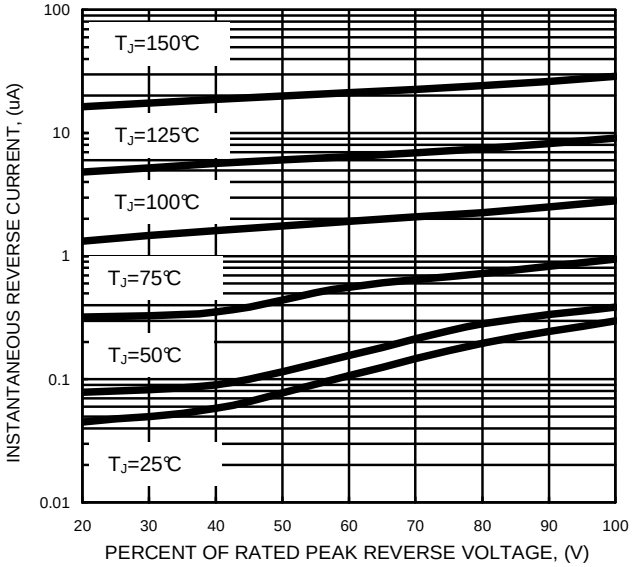
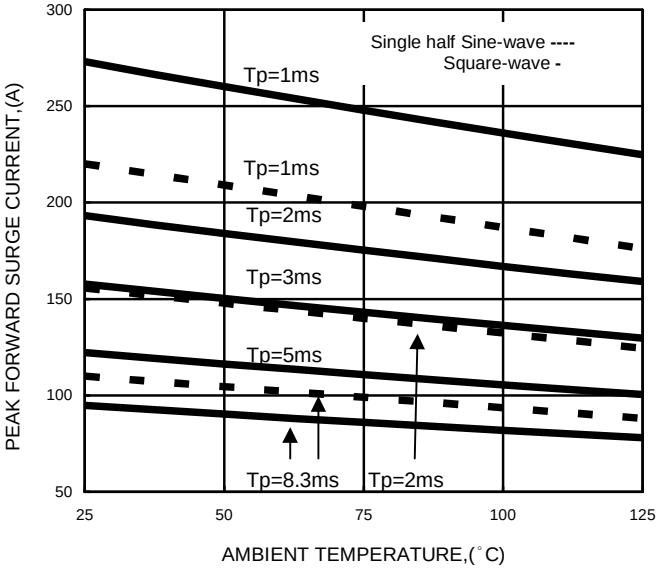


FIG.6 NON-REPETITIVE SURGE CURRENT



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.