LITE-ON SEMICONDUCTORS

MUR460

SUPER FAST GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE – 600Volts FORWARD CURRENT – 4.0 Amperes

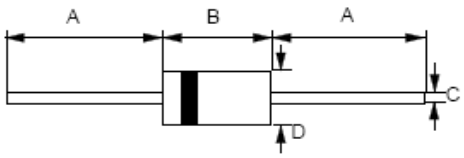
FEATURES

- Glass passivated chip
- Super fast switching time for high efficiency
- Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight: 0.04 ounce, 1.1 grams
- Mounting position: Any

DO-201AD



DO-201AD		
Dim.	Min.	Max.
A	25.4	-
B	7.30	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MUR460	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
Average Rectified Output Current @T_L=120℃	$I_{F(AV)}$	4.0	A
Peak Forward Surge Current 8.3ms single half sine-wave, Tj=25℃	I_{FSM}	110	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	°C

PARAMETER	TEST CONDITIONS		SYMBOL	Min.	Typ.	Max.	UNIT
Forward Voltage (1)	IF=4A	Tj=25°C	V_F	---	---	1.28	V
Maximum DC Reverse Current	VR=600V	Tj=25°C Tj=150°C	I_R	--- ---	--- ---	10 250	uA
Reverse Recovery Time (Note1)			Trr	---	---	50	ns

THERMAL CHARACTERISTIC	SYMBOL	Typical	UNIT
Typical Junction Capacitance per element (Note 2)	Cj	60	pF
Typical thermal Resistance, Junction to Lead (Note 3)	$R_{\Theta JL}$	11	°C/W

Note :

1. Measured with IF=0.5A,IR=1A,IRR=0.25A.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Measured point from body 1mm by lead.

REV. 3, Sep-2010, KDGF09

RATING AND CHARACTERISTIC CURVES
MUR460

FIG.1- FORWARD CURRENT DERATING CURVE

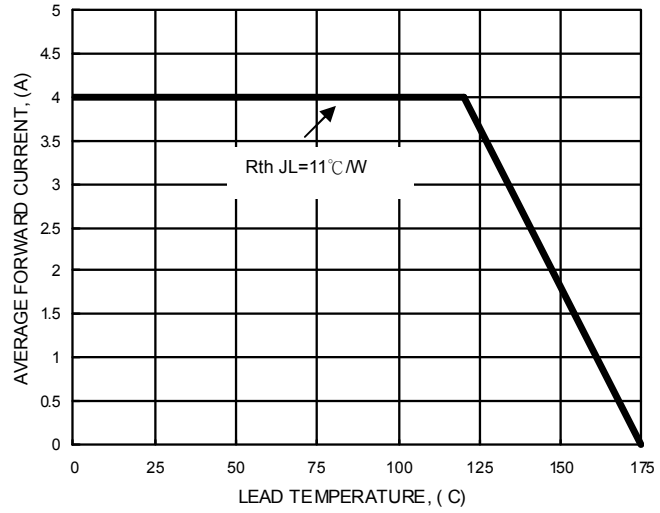


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

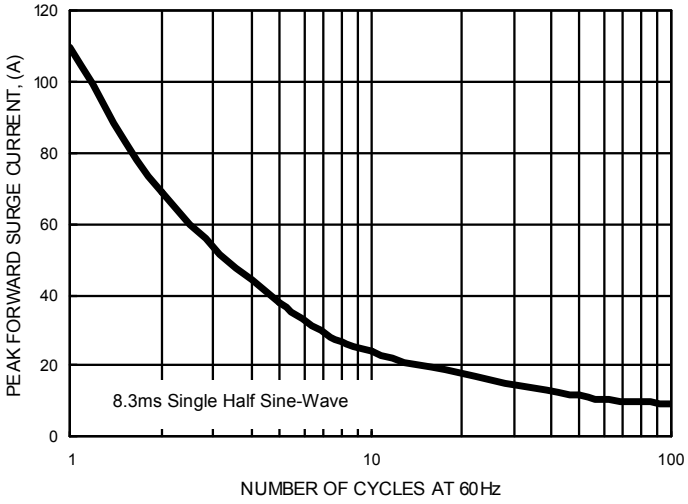


FIG.3- TYPICAL FORWARD CHARACTERISTICS

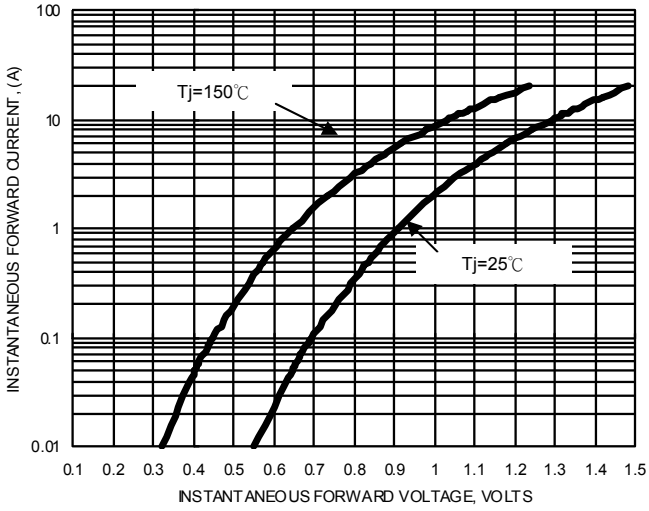


FIG.4- TYPICAL JUNCTION CAPACITANCE

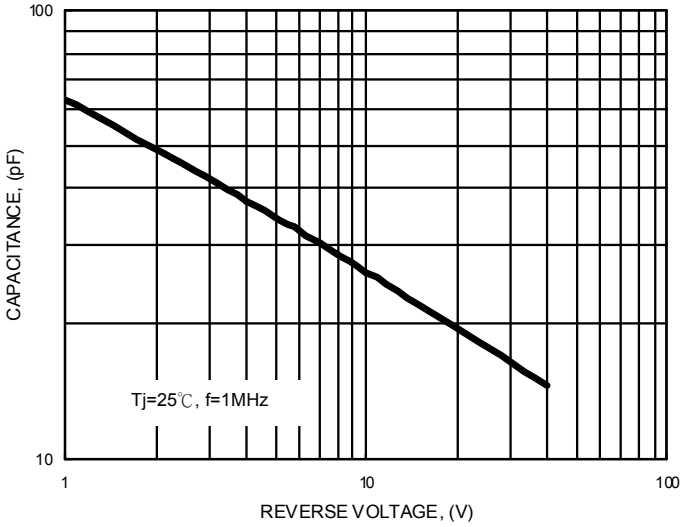


FIG.5- TYPICAL REVERSE CHARACTERISTICS

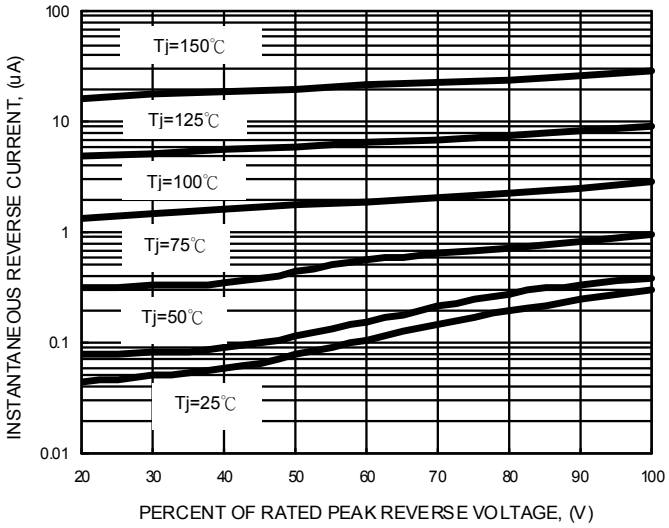
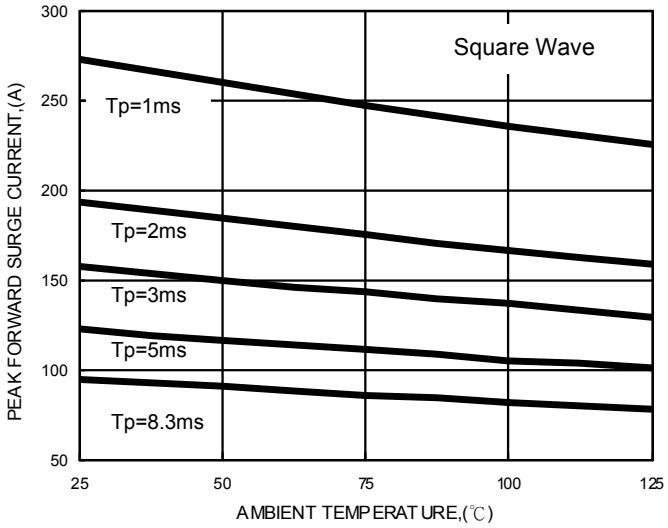


FIG.6 NON-REPETITIVE SURGE CURRENT



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