

SUPER FAST GLASS PASSIVATED RECTIFIERS	REVERSE VOLTAGE – 600Volts FORWARD CURRENT – 4.0 Amperes
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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	MUR460D	UNIT			
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V			
Maximum DC Blocking Voltage	V_{DC}	600	V			
Average Rectified Output Current @ $T_L=120^{\circ}C$	$I_{F(AV)}$	4.0	A			
Peak Forward Surge Current 8.3ms single half sine-wave, $T_j=25^{\circ}C$	I_{FSM}	110	A			
I^2t Rating for fusing ($3ms \leq t \leq 8.3ms$)	I^2t	50	A ² S			
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +175	$^{\circ}C$			
PARAMETER	TEST CONDITIONS	SYMBOL	Min.	Typ.	Max.	UNIT
Forward Voltage (1)	$I_F=4A$ $T_j=25^{\circ}C$	V_F	---	---	1.28	V
Maximum DC Reverse Current	$V_R=600V$ $T_j=25^{\circ}C$ $T_j=150^{\circ}C$	I_R	---	---	10 250	μA
Reverse Recovery Time (Note1)		T_{rr}	---	---	50	ns
Single pulse avalanche energy @15mH		E_{AS}	---	---	10.8	mJ
THERMAL CHARACTERISTIC	SYMBOL	Typical			UNIT	
Typical Junction Capacitance per element (Note 2)	C_j	40			pF	
Typical thermal Resistance, Junction to Lead (Note 3)	$R_{\theta JL}$	11			$^{\circ}C/W$	

Note : **REV. 1, Apr-2013, KDGf10**

1. Measured with $I_F=0.5A, I_R=1A, I_{RR}=0.25A$.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Measured point from body 1mm by lead.

FIG.1- FORWARD CURRENT DERATING CURVE

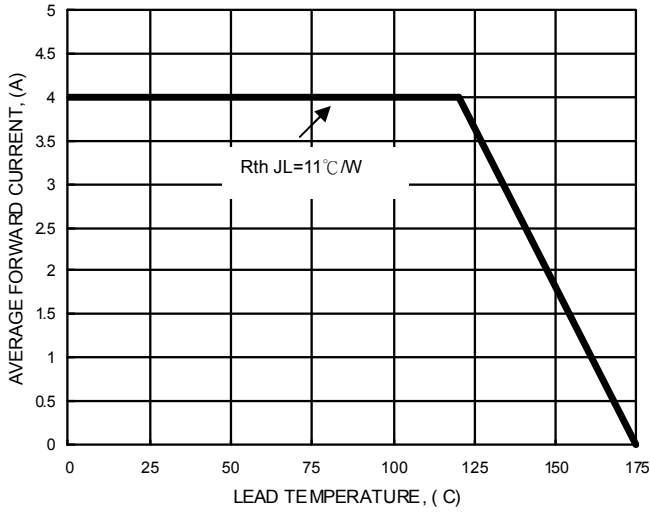


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

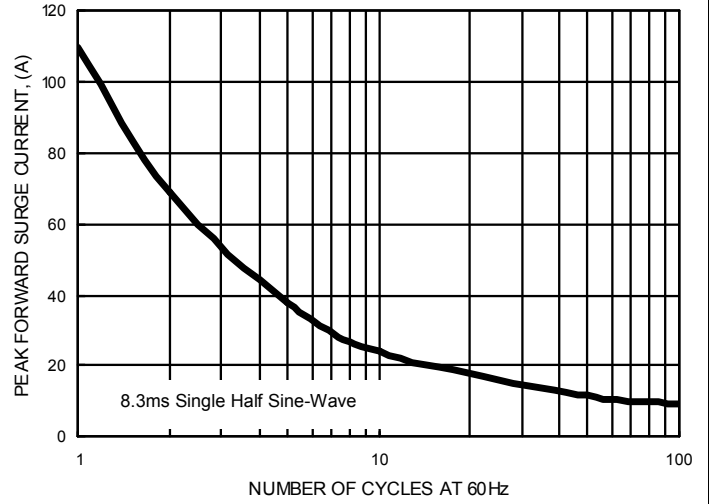


FIG.3- TYPICAL FORWARD CHARACTERISTICS

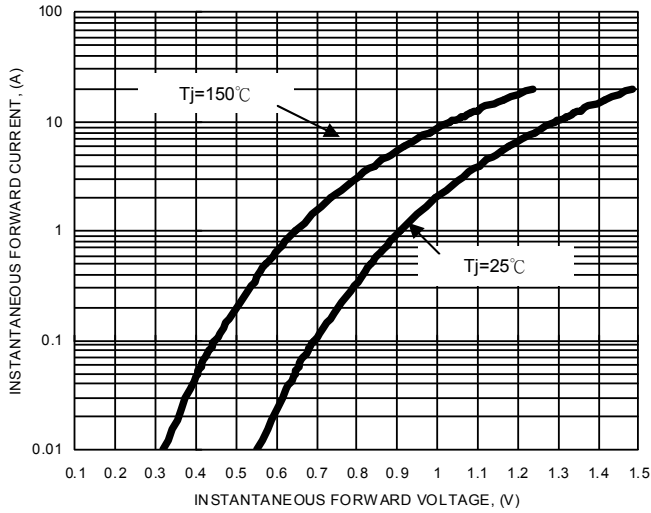


FIG.4- TYPICAL JUNCTION CAPACITANCE

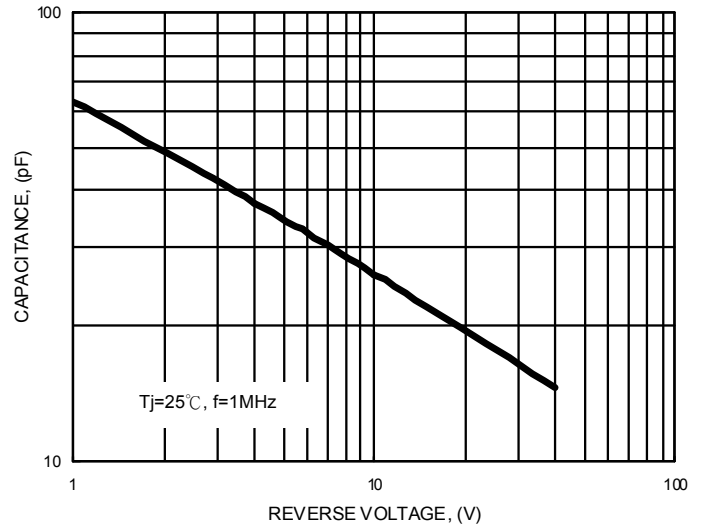


FIG.5- TYPICAL REVERSE CHARACTERISTICS

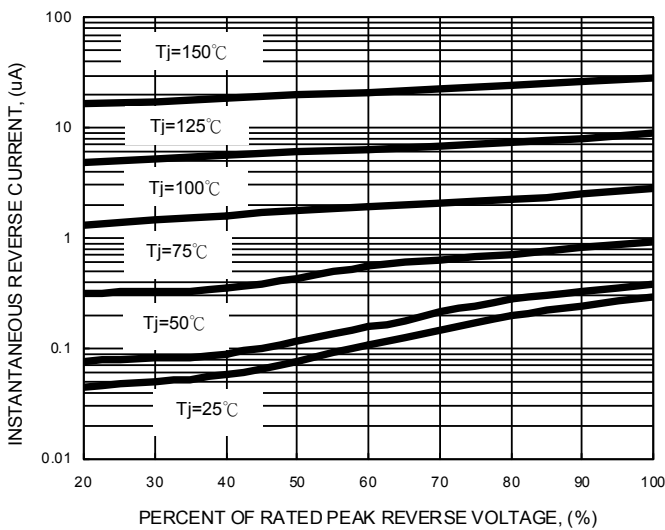
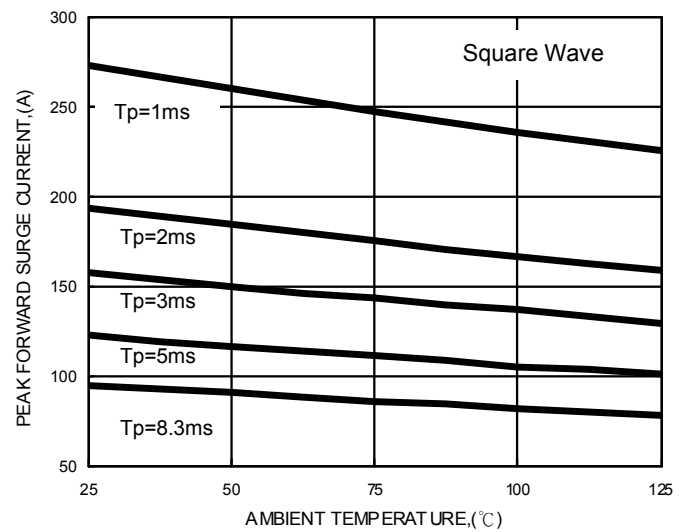


FIG.6 NON-REPETITIVE SURGE CURRENT



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