

<b>SUPER FAST GLASS PASSIVATED RECTIFIERS</b>	<b>REVERSE VOLTAGE – 600Volts FORWARD CURRENT – 4.0 Amperes</b>
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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	MUR460E	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 @ $T_L=120^\circ C$	$I_{F(AV)}$	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 <sup>2</sup> S
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +175	°C

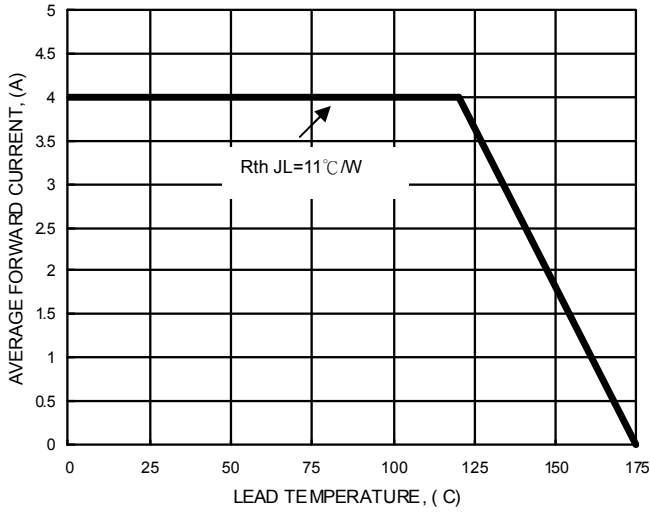
PARAMETER	TEST CONDITIONS		SYMBOL	Min.	Typ.	Max.	UNIT
Forward Voltage (1)	$I_F=4A$	$T_j=25^\circ C$	$V_F$	---	---	1.28	V
Maximum DC Reverse Current	$V_R=600V$	$T_j=25^\circ C$ $T_j=150^\circ C$	$I_R$	---	---	10 250	$\mu A$
Reverse Recovery Time (Note1)			$T_{rr}$	---	---	50	ns
Single pulse avalanche energy @15mH			$E_{AS}$	---	---	10.8	mJ

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

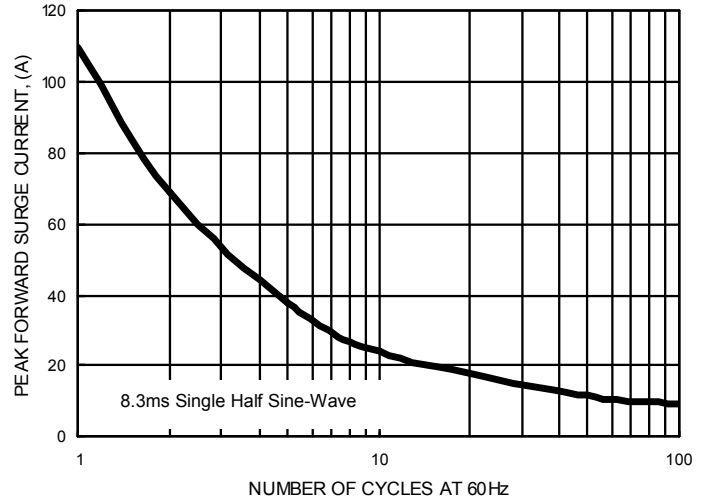
Note : **REV. 0, Dec-2012, KDFG10**

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.

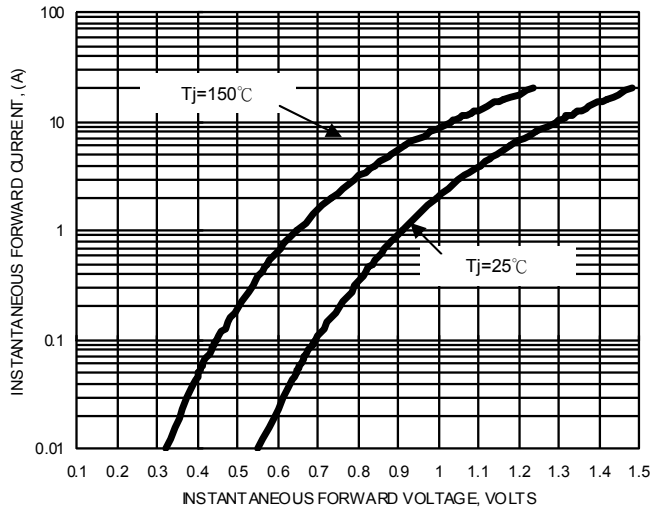
**FIG. 1- FORWARD CURRENT DERATING CURVE**



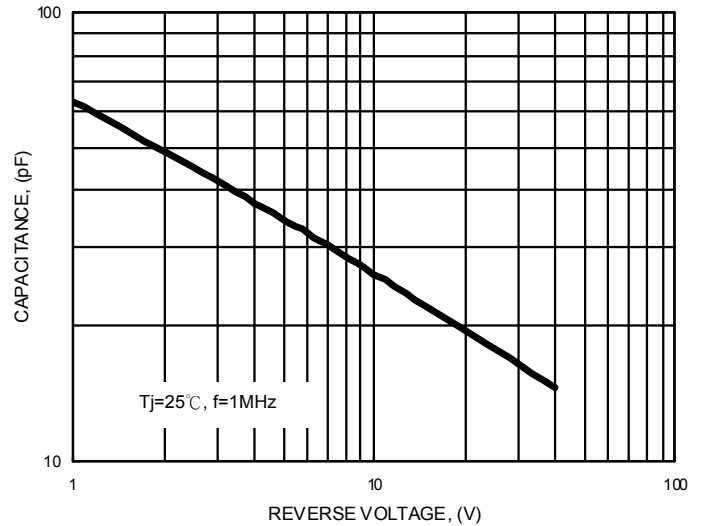
**FIG. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT**



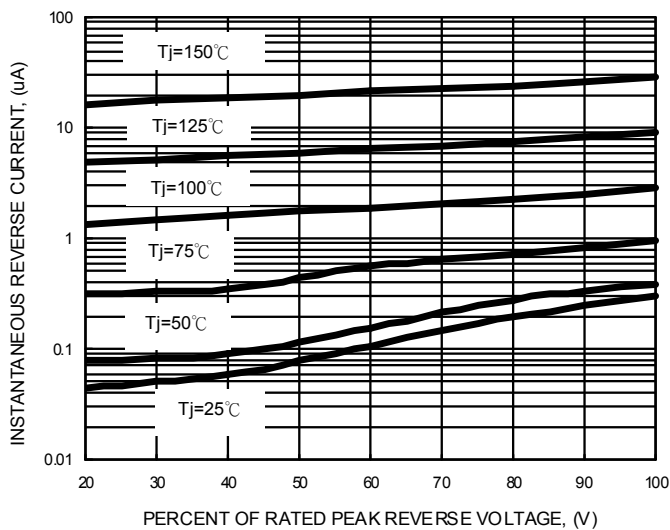
**FIG. 3- TYPICAL FORWARD CHARACTERISTICS**



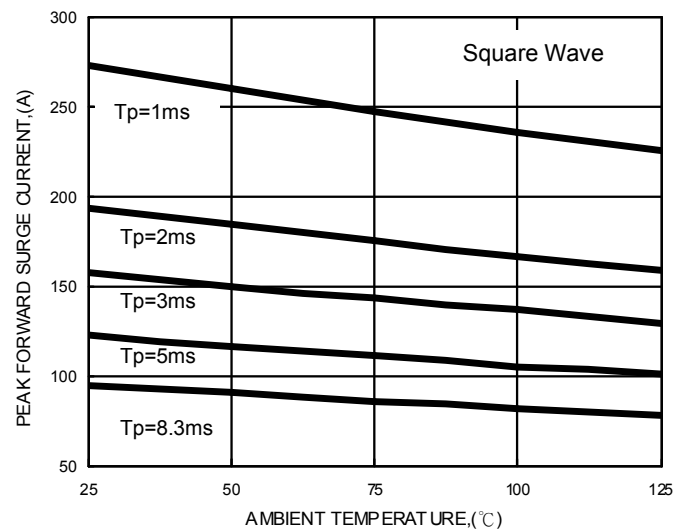
**FIG. 4- TYPICAL JUNCTION CAPACITANCE**



**FIG. 5- TYPICAL REVERSE CHARACTERISTICS**



**FIG. 6 NON-REPETITIVE SURGE CURRENT**



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