

**ULTRA FAST
GLASS PASSIVATED RECTIFIERS**

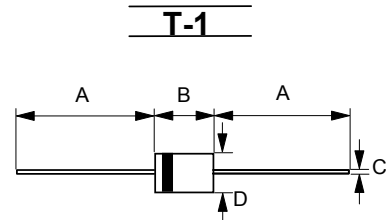
REVERSE VOLTAGE - **200 to 1000** Volts
FORWARD CURRENT - **1.0** Ampere

FEATURES

- Glass passivated chip
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Chlorothene and similar solvents
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case : Molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.004 ounces, 0.13 grams
- Mounting position : Any



T-1		
Dim.	Min.	Max.
A	25.4	-
B	2.60	3.20
C	0.53 \varnothing	0.64 \varnothing
D	2.20 \varnothing	2.60 \varnothing
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	UD3G	UD4G	UD5G	UD6G	UD7G	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =55°C	I _(AV)	1.0					A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I _{FSM}	30					A
Maximum forward Voltage at 1.0A DC	V _F	1.0	1.3	1.7			V
Maximum DC Reverse Current @T _J =25 °C at Rated DC Blocking Voltage @T _J =100 °C	I _R	5 100					uA
Maximum Reverse Recovery Time (Note 1)	T _{RR}	50		75			ns
Typical Junction Capacitance (Note 2)	C _J	10					pF
Typical Thermal Resistance (Note 3)	R _{θJC} R _{θJA}	20 100					°C/W
Storage / Operating Temperature Range	T _{STG} ,T _J	-55 to +150					°C

NOTES : 1. Test condition of T_{RR}: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Thermal Resistance Junction to Case and Ambient.

REV. 1, Sep-2010, KDFA01

FIG.1 - FORWARD CURRENT DERATING CURVE

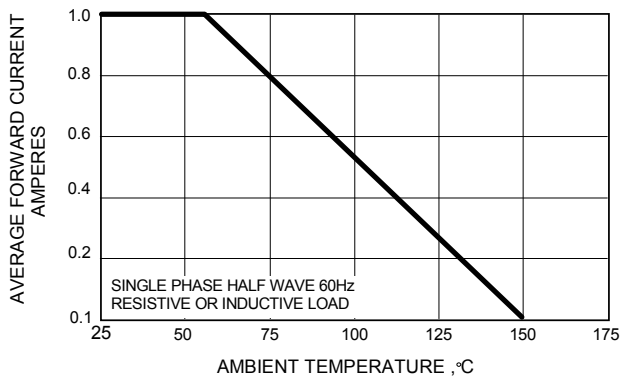


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

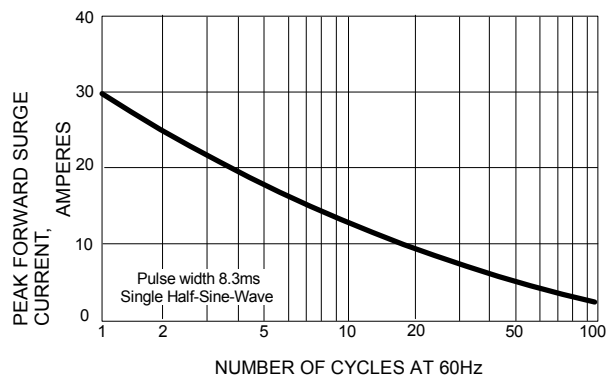


FIG.3 - TYPICAL JUNCTION CAPACITANCE

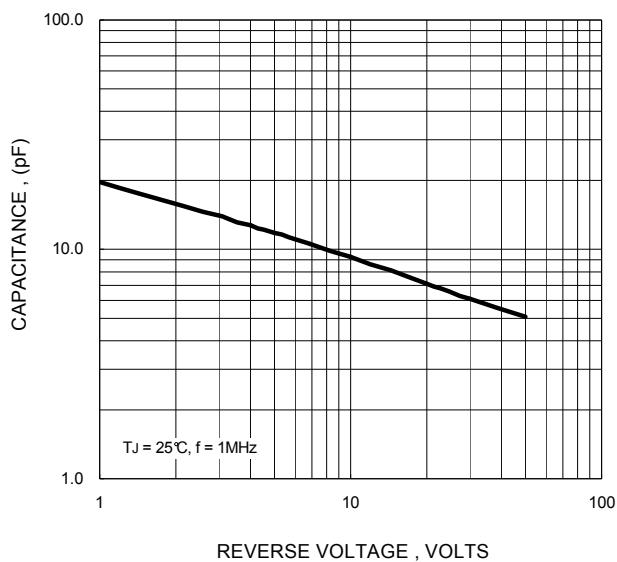


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

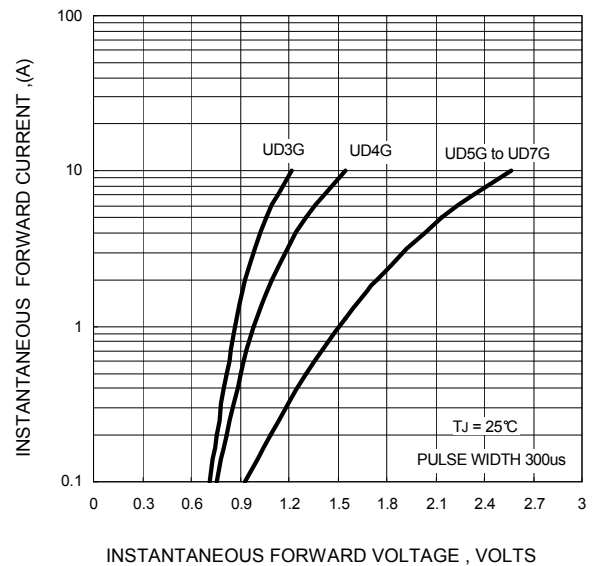
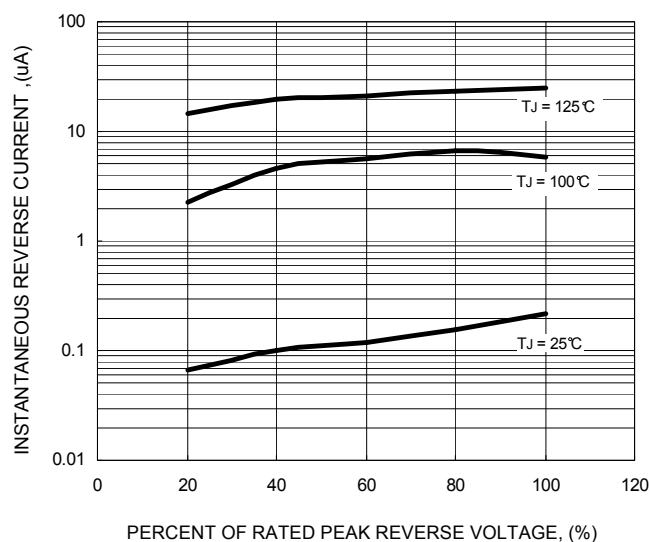


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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