



**GLASS PASSIVATED JUNCTIONS**

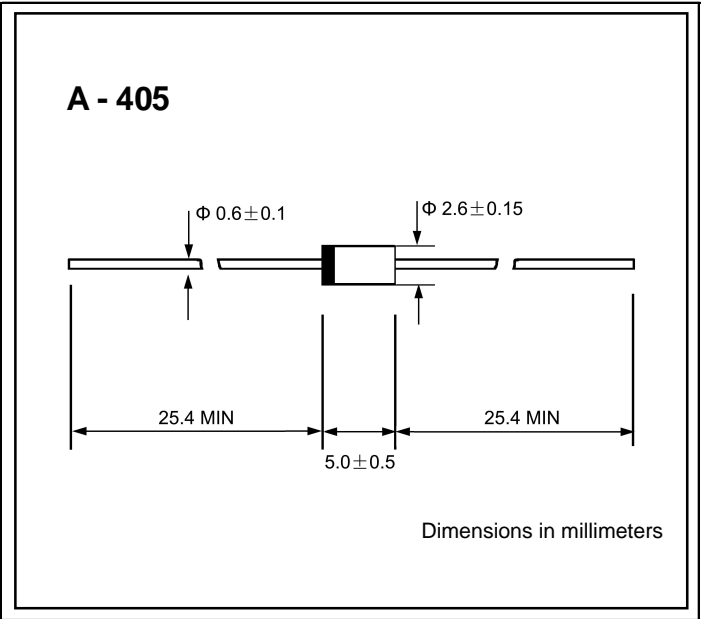
**VOLTAGE RANGE: 50 --- 600 V**  
**CURRENT: 1.0 A**

**FEATURES**

- ◇ Low cost
- ◇ Glass passivated junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Freon,Alcohol,Isopropanop and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

**MECHANICAL DATA**

- ◇ Case:JEDEC A-405,molded plastic
- ◇ Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.008 ounces,0.23 grams
- ◇ Mounting position: Any



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

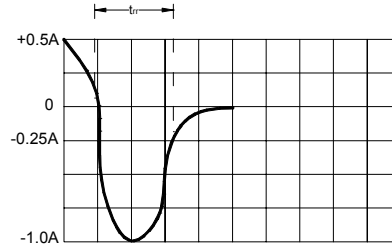
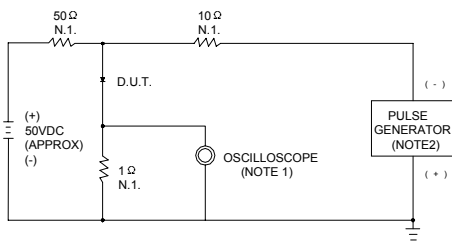
		1N 4933GL	1N 4934GL	1N 4935GL	1N 4936GL	1N 4937GL	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	V
Maximum average forward rectified current 9.5mm lead length, @ $T_A=75^\circ C$	$I_{F(AV)}$	1.0					A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$	$I_{FSM}$	30.0					A
Maximum instantaneous forward voltage @1.0 A	$V_F$	1.3					V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	$I_R$	5.0 100.0					$\mu A$
Maximum reverse capacitance (Note1)	$t_{rr}$	200					ns
Typical junction capacitance (Note2)	$C_J$	12.0					pF
Typical thermal resistance (Note3)	$R_{\theta JA}$	22.0					$^\circ C/W$
Operating junction temperature range	$T_J$	- 55---- +175					$^\circ C$
Storage temperature range	$T_{STG}$	- 55---- + 175					$^\circ C$

NOTE: 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. Thermal resistance from junction to ambient.

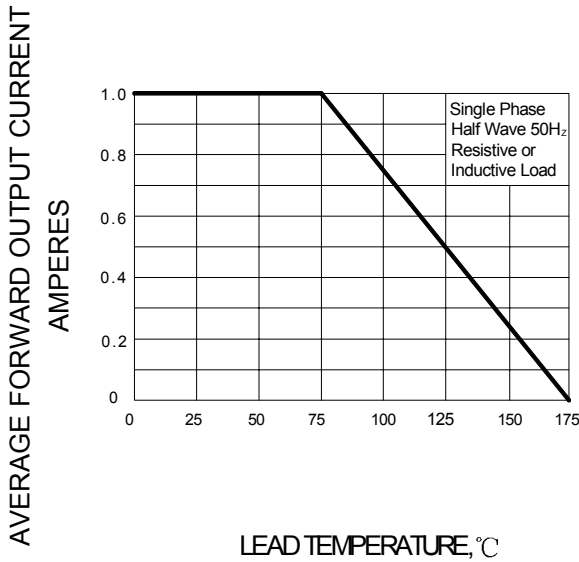
**FIG.1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC**



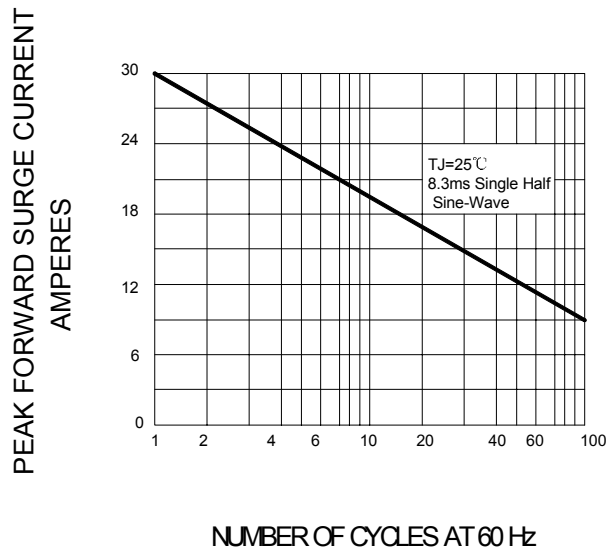
NOTES: 1. RISE TIME = 7ns MAX. INPUT IMPEDANCE = 1MΩ. 22PF  
 2. RISE TIME = 10ns MAX. SOURCE IMPEDANCE = 50Ω

SET TIME BASE FOR 50/100 ns /cm

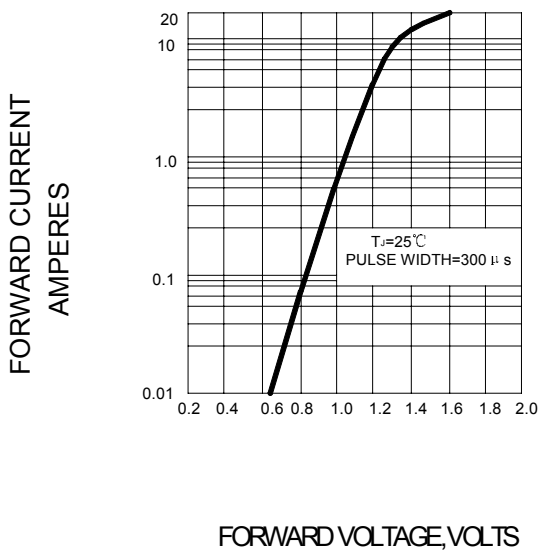
**FIG.2 – FORWARD CURRENT DERATING CURVE**



**FIG.3 – PEAK FORWARD SURGE CURRENT**



**FIG.4 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL JUNCTION CAPACITANCE**

