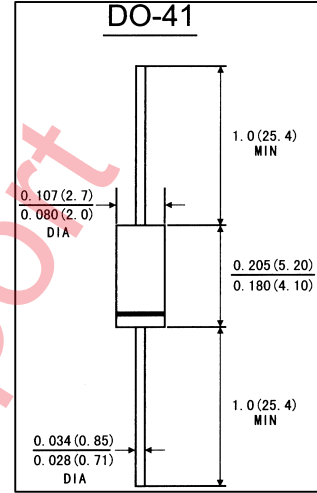


**FEATURES**

- . Fast switching
- . Low leakage current
- . Low forward voltage drop
- . High current capability
- . Glass passivated junction
- . High reliability capability

**MECHANICAL DATA**

- . **Case:** JEDEC DO-41 molded plastic body
- . **Terminals:** Plated axial lead, solderable per MIL-STD-750,method 2026
- . **Polarity:** Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.012 ounce, 0.34 gram



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Ratings at 25°C ambient temperature unless otherwise specified,Single phase,half wave 60Hz,resistive or inductive) load. For capacitive load,derate current by 20%)

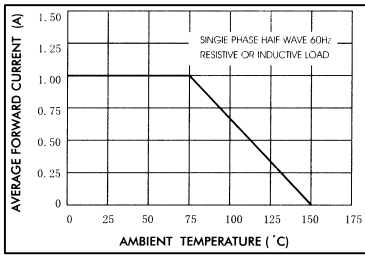
	Symbols	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at $T_A=75^{\circ}C$	$I_{(AV)}$	1.0					Amp
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method) $T_A=75^{\circ}C$	$I_{FSM}$	30.0					Amps
Maximum instantaneous forward voltage at 1.0 A	$V_F$	1.2					Volts
Maximum DC Rreverse Current at rated DC blocking voltage	$I_R$	5.0					$\mu A$
Maximum full load reverse current full cycle average. 0.375"(9.5mm)lead length at $T_L=55^{\circ}C$		100					
Maximum reverse recovery time(Note 1)	$T_{rr}$	150		250		500	ns
Typical junction Capacitance(Note 2)	$C_J$	15.0					pF
Operating and storage temperature range	$T_J T_{STG}$	-65 to +175					$^{\circ}C$

**Notes:** 1. Test conditions:  $I_F=1.0A, V_R=30V$

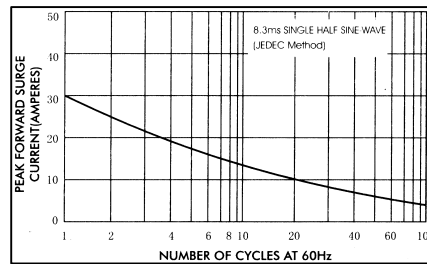
2. Measured at 1MHz and applied reverse voltage of 4.0V Volts.

### RATINGS AND CHARACTERISTIC CURVES 1N4933G THRU 1N4937G

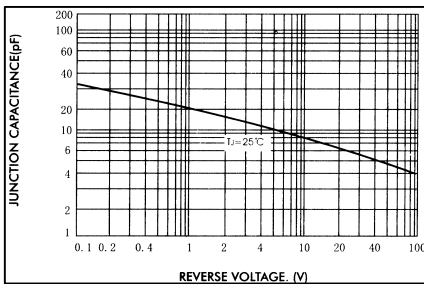
**FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE**



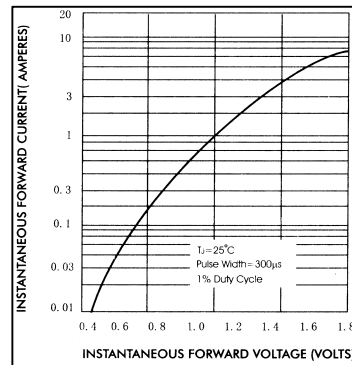
**FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.3-TYPICAL JUNCTION CAPACITANCE**



**FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC**

