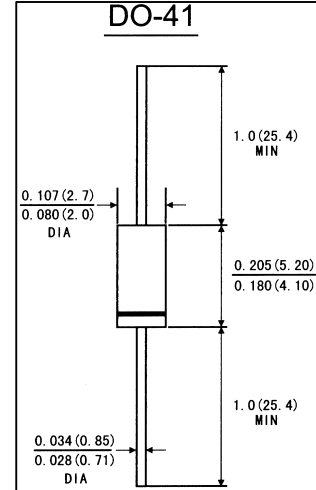


### FEATURES

- . 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%)

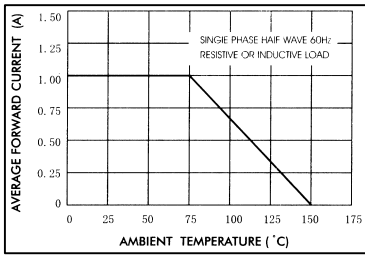
	Symbols	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	Volts
Maximum average forward rectified current 0.375"(9.5mm)lead length at T <sub>A</sub> =75°C	I <sub>(AV)</sub>	1.0					Amp
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)T <sub>A</sub> =75°C	I <sub>FSM</sub>	30.0					Amps
Maximum instantaneous forward voltage at 1.0 A	V <sub>F</sub>	1.2					Volts
Maximum DC Rreverse Current at rated DC blocking voltage	I <sub>R</sub>	5.0					μ A
Maximum full load reverse current full cycle average. 0.375"(9.5mm)lead length at T <sub>L</sub> =55°C		100					
Maximum reverse recovery time(Note 1)	T <sub>rr</sub>	150		250		500	ns
Typical junction Capacitance(Note 2)	C <sub>J</sub>	15.0					pF
Operating and storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-65 to +175					°C

**Notes:** 1. Test conditions: I<sub>F</sub>=1.0A, V<sub>R</sub>=30V

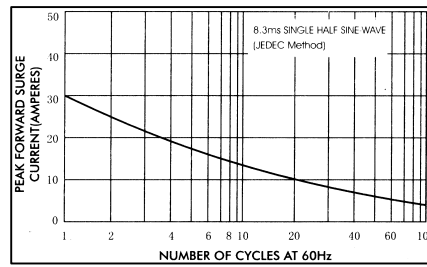
2. Measured at 1MHz and applied reverse voltage of 4.0V Volts.

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

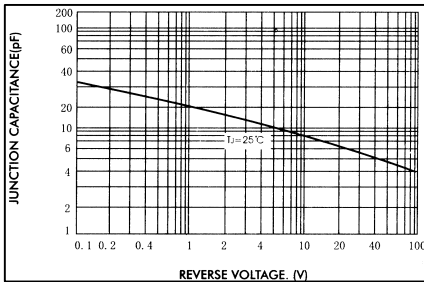
**FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE**



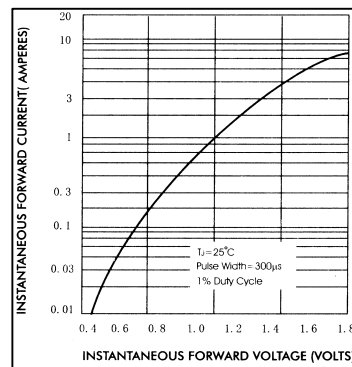
**FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.3-TYPICAL JUNCTION CAPACITANCE**



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



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

