

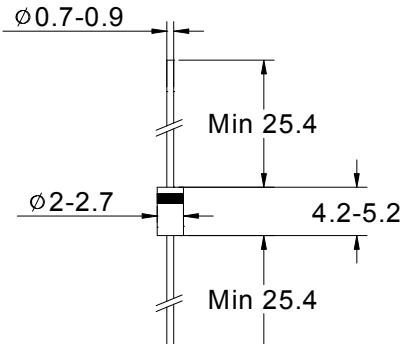
1N4001G THRU 1N4007G, BY133G

GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage – 50 to 1300 Volts

Forward Current – 1.0 Ampere

DO-41



Dimensions in mm

Mechanical Data

- **Case:** Molded plastic, DO-41
- **Lead:** Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbol	1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	BY 133G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	1300	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	910	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	1300	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at T _A = 75 °C	I _(AV)	1								A
Peak Forward Surge Current, 8.3ms single half sine-wave Superimposed on rated load (JEDEC Method)	I _{FSM}	30								A
Maximum forward Voltage at 1A DC and 25 °C	V _F	1.1								V
Maximum Reverse Current T _A = 25 °C at Rated DC Blocking Voltage T _A = 100 °C	I _R	5 50								µA
Typical Junction Capacitance ¹⁾	C _J	15								pF
Typical Thermal Resistance ²⁾	R _{θJA}	50								°C/W
Typical Thermal Resistance ²⁾	R _{θJL}	25								°C/W
Operating and Storage Temperature range	T _J , T _{stg}	-55 to +150								°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 volts.

²⁾ Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length P.C.B. mounted.

TOP DYNAMIC



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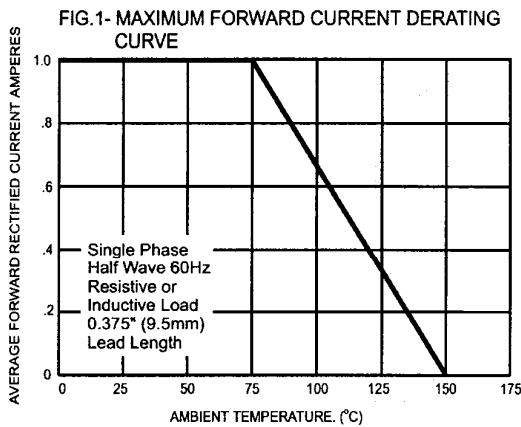


FIG.2- TYPICAL FORWARD CHARACTERISTICS

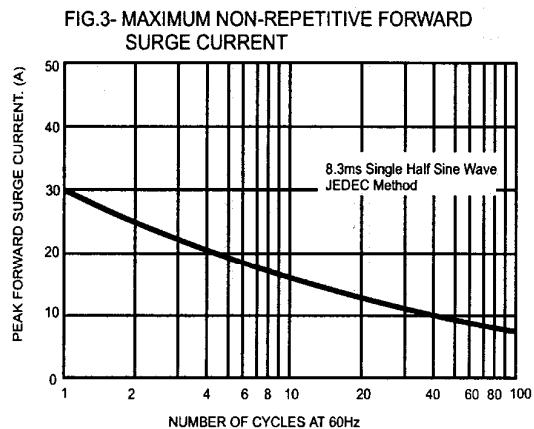
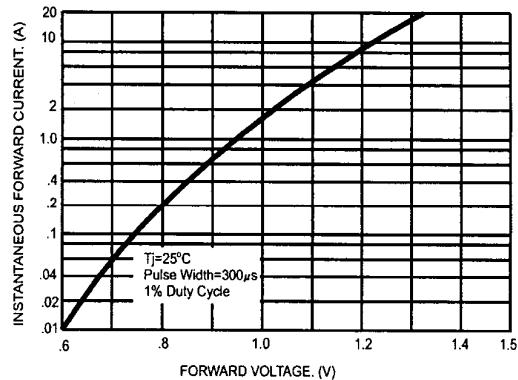


FIG.4- TYPICAL JUNCTION CAPACITANCE

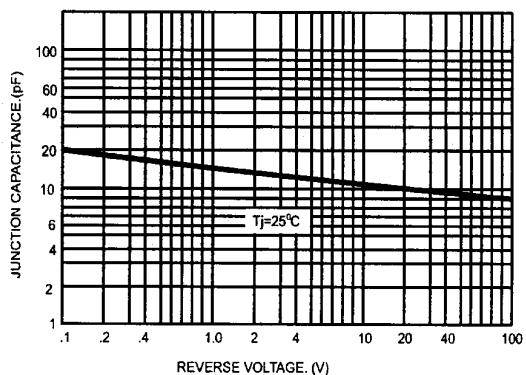
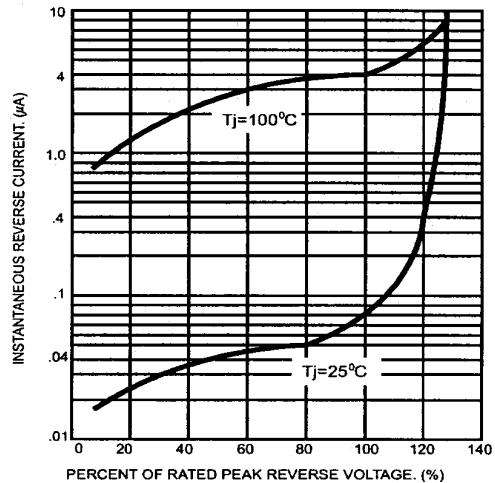


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC 080000
Certificate No. 121505007 Certificate No. 50114012 Certificate No. 0513150006 Certificate No. ECU4410001 K022

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