

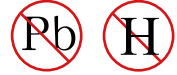


YEA SHIN TECHNOLOGY CO., LTD

1N4001G THRU 1N4007G

GLASS PASSIVATION RECTIFIERS

VOLTAGE - 50 to 1000 Volts CURRENT - 1.0 Ampere



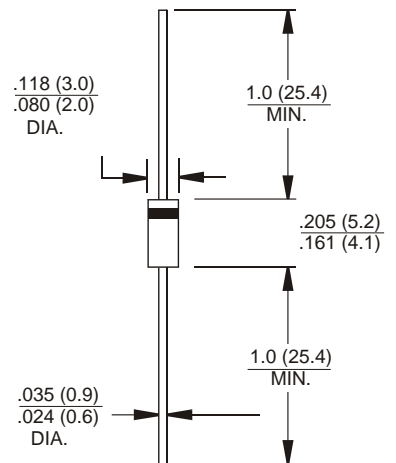
FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Exceeds environmental standards of MIL-S-19500/228
- High temperature soldering : 260 °C / 10 seconds at terminals
- Pbfree product at available:99% Sn above meet RoHS environment substance directive request

MECHANICAL DATA

- Case:DO-41 Molded plastic
- Epoxy : UL 94V-0 rate flame retardant.
- Lead Axial leads,solderable per MIL-STD-202, Method 208 guaranteed
- polarity:Color band denotes cathode end
Mounting Position: Any

DO-41 Unit:inch (mm)



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 current by 20%.

PARAMETER	SYMBOLS	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Forward Current , I_o @ TA = 75°C 3/8" lead length, 60 Hz resistive or inductive load.	$I(AV)$	1.0							A
Peak Forward Surge Current, IFM (surge):8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							A
Maximum Forward Voltage at 1.0A	V_F	1.1							V
Maximum Full Load Reverse Current, Full Cycle Average at TA=75°C	I_R	30.0							µA
Maximum DC Reverse Current at TA=25° C	I_R	5.0							µA
At Rated DC Blocking Voltage TA=100°C		50							µA
Typical Junction Capacitance (Note 1)	C_J	15							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50.0							°C/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	25.0							°C/W
Operating and Storage Temperature Range	$T_{J,STG}$	-55 to +150							°C

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2. Thermal Resistance from Junction to Ambient and from junction to lead at 0.375"(9.5mm)lead length P.C.B.mounted.

DEVICE CHARACTERISTICS

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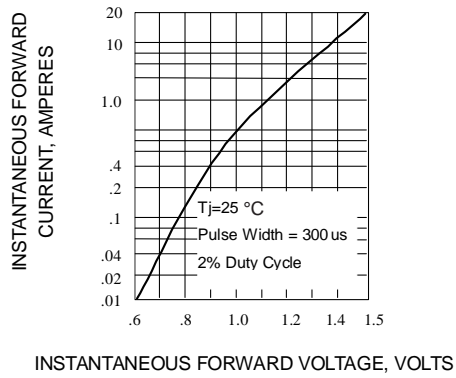


Fig. 1-TYPICAL FORWARD CHARACTERISTICS

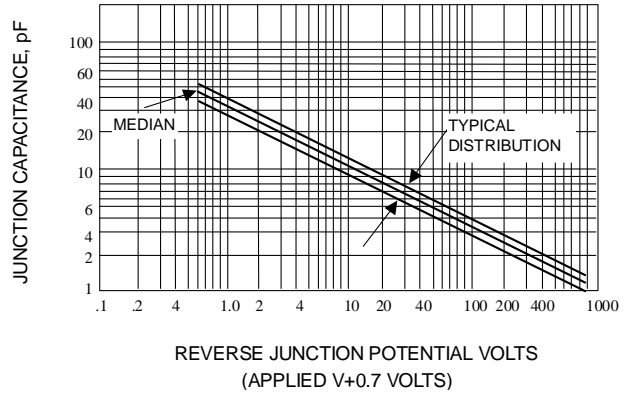


Fig. 2-JUNCTION CAPACITANCE

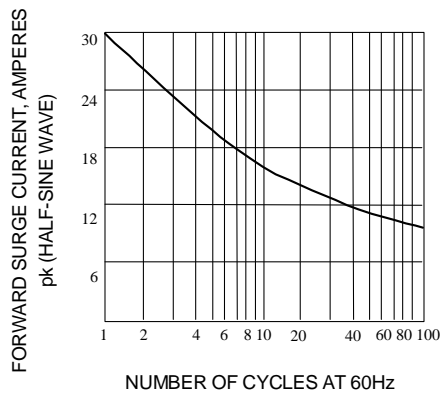


Fig. 3-PEAK FORWARD SURGE CURRENT

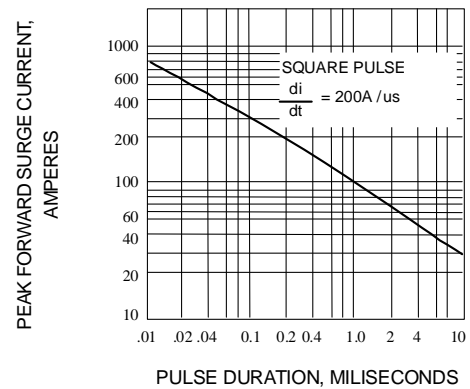


Fig. 4-PEAK FORWARD SURGE CURRENT

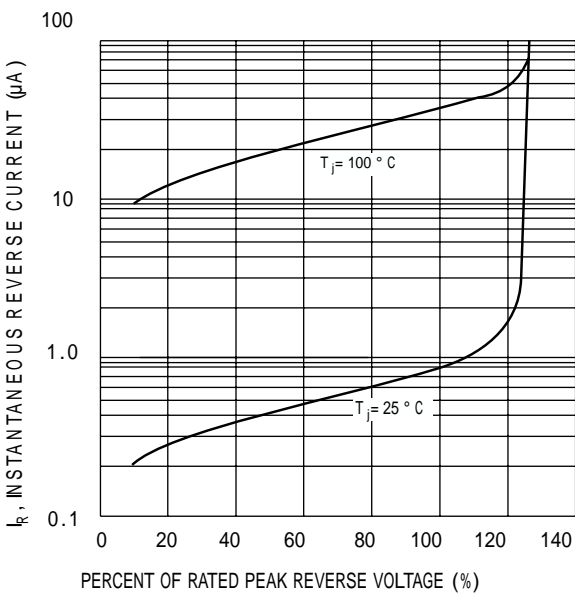


Fig. 5-TYPICAL REVERSE CHARACTERISTICS