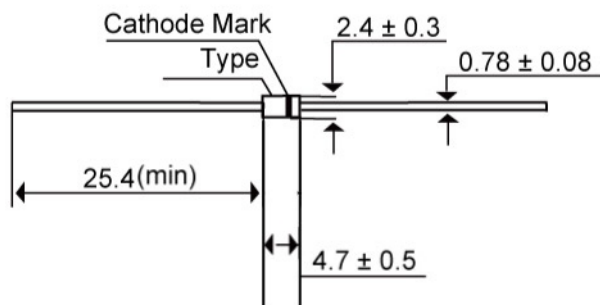


FEATURES

- 1 Amp, 50 to 1000 Volts
- Available with glass passivated chip junction with suffix G
- Low forward voltage drop
- High reliability

MECHANICAL DATA

- Molded plastic case (UL 94V-0 rate)
- Axial leads, solderable (MIL-STD-202 Method 208)
- Color band denotes cathode end
- High temperature soldering 260°C/10 seconds
- Weight: 0.35 gram



DO-41 (DO-204AL)
 Dimensions in millimeters

MAXIMUM RATINGS & ELECTRICAL 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	Sample	1N4001 (G)	1N4002 (G)	1N4003 (G)	1N4004 (G)	1N4005 (G)	1N4006 (G)	1N4007 (G)	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Reverse Voltage	V _{(R)RMS}	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current . (9.5mm Lead length @ TA=75°C)	I _{F(AV)}	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							A
Maximum Instantaneous Forward Voltage @1.0A	V _F	1.0							V
Maximum DC Reverse Current @ TA=25°C at rated Peak Reverse voltage @ TA=125°C	I _R	5.0 50.0							μA
Operating Temperature Range	T _J	-55 to +125 / -55 to +175 for (G)							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

■ **RATING & CHARACTERISTIC CURVES**

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

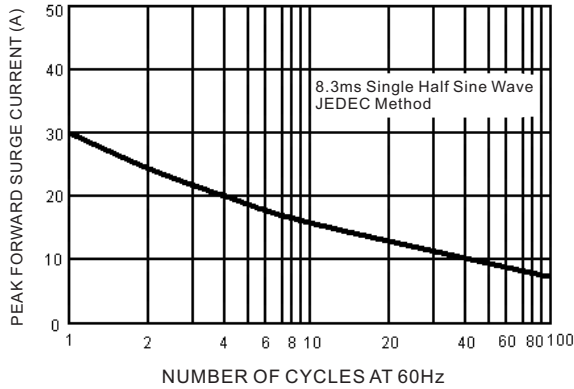


FIG.2-MAXIMUM FORWARD CURRENT DERATING

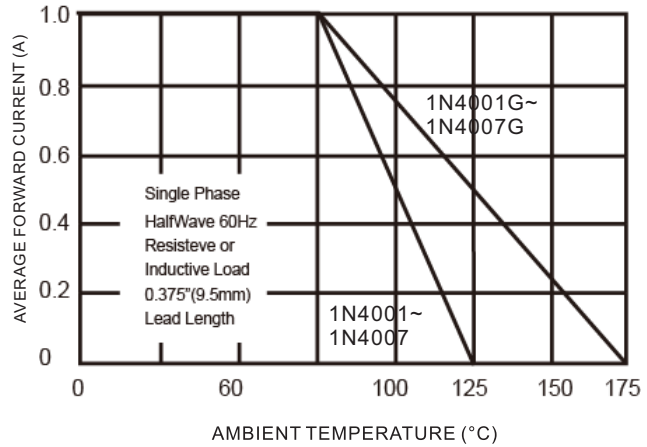


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

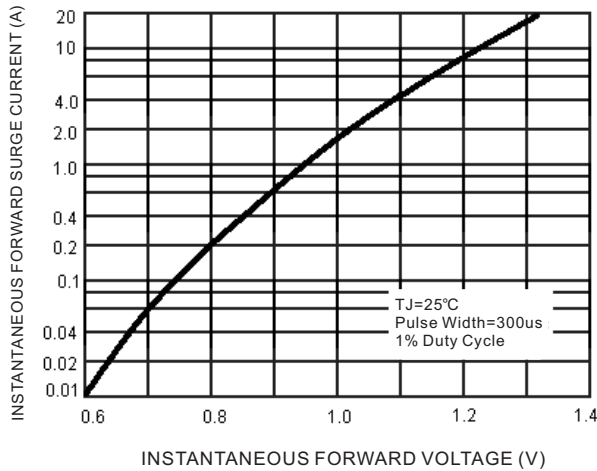


FIG.4-TYPICAL REVERSE CHARACTERISTICS

