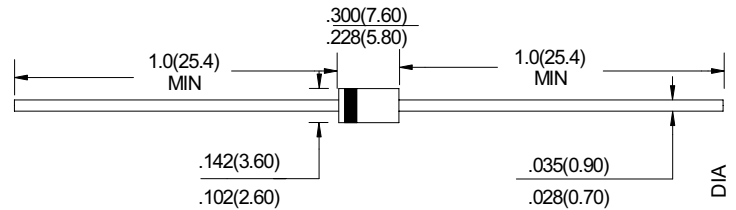


FEATURES

- 1.5 amps, 50 to 1000V
- Available with glass passivated chip junction, suffix G
- Low forward voltage drop
- High reliability



DO-204AC (DO-15)
Dimensions in inches and (millimeters)

MECHANICAL DATA

- Molded plastic body (UL-94V-0 rated)
- Lead: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode end
- Weight: 0.40 grams

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	Symbol	1N5391 (G)	1N5392 (G)	1N5393 (G)	1N5395 (G)	1N5397 (G)	1N5398 (G)	1N5399 (G)	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
Maximum Average Forward Rectified Current TA = 50°C	I _{F(AV)}	1.5							A
Peak (Non-Repetitive) Forward Surge Current 60Hz Half-Sine Wave, 1 Cycle	I _{FSM}	50							A
Forward Voltage Drop I _{FM} = 1.5A	V _{FM}	1.1							V
Peak DC Reverse Current @ TA = 25°C @ TA = 125°C	I _{RRM1} I _{RRM2}	5 50							mA
Typical Thermal Resistance Junction to Lead	R _{0JA} (Note 1) R _{0JL} (Note 2)	25 20							°C/W
Operating Temperature Range	T _J	-55 to +125 / -55 to +175 for (G)							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTE: Thermal resistance from junction to ambient 0.375" (9.5mm) lead length.

RATING & CHARACTERISTIC CURVES

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

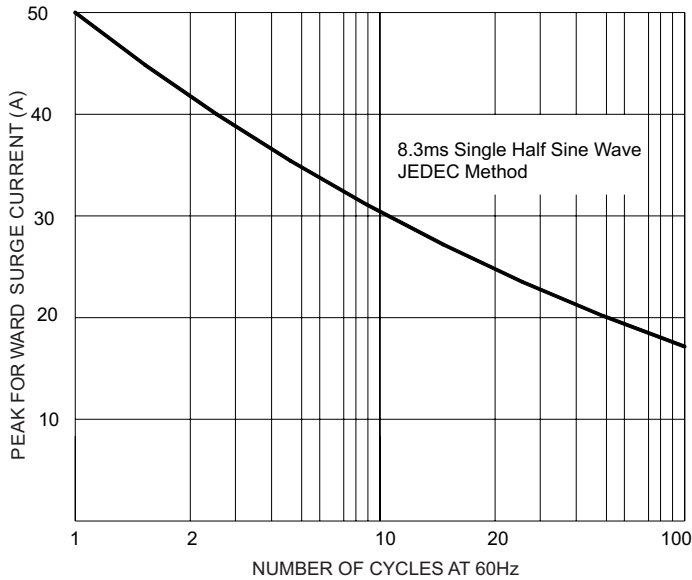


FIG.2-MAXIMUM FORWARD CURRENT DERATING

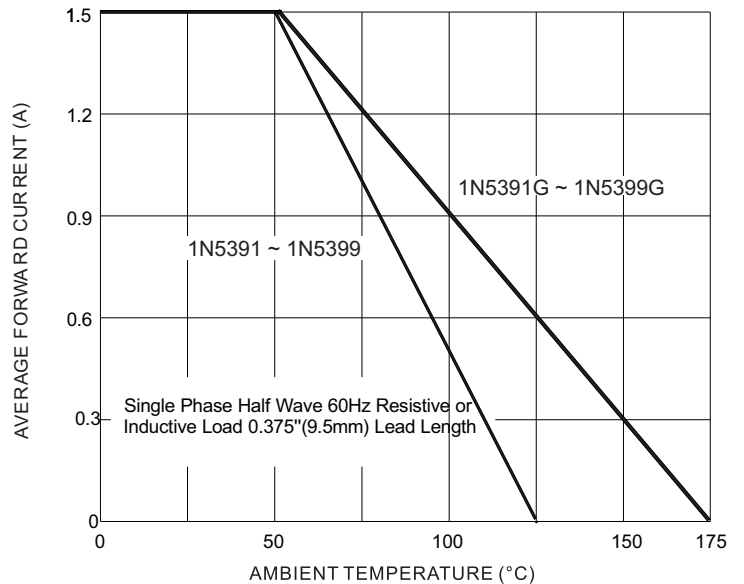


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

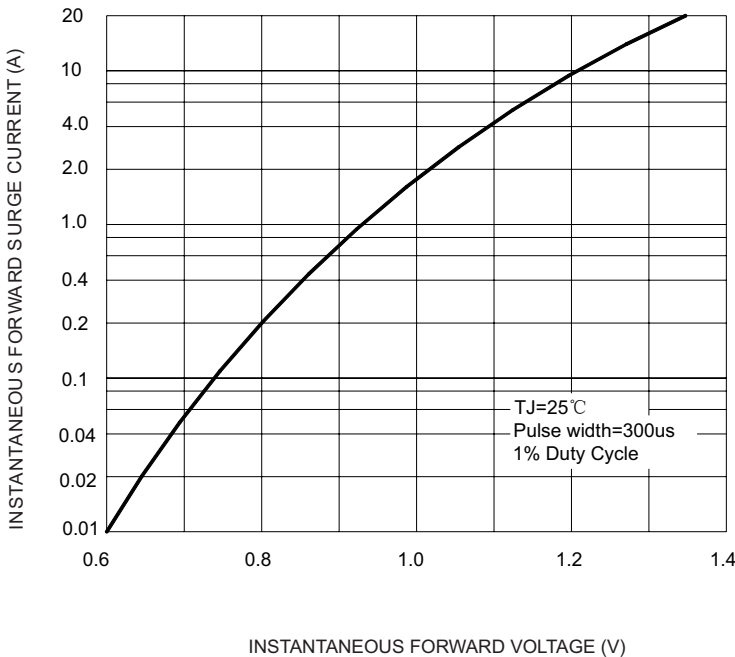


FIG.4-TYPICAL REVERSE CHARACTERISTICS

