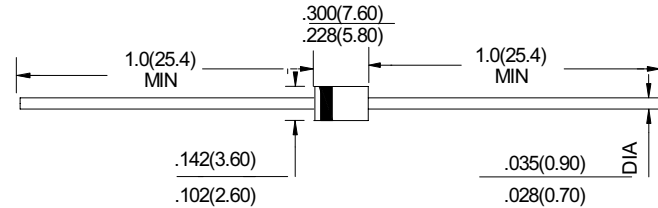


FEATURES

- 1.5 amps, 50 to 1000V
- Available with glass passivated chip junction, suffix G
- Low forward voltage drop
- High reliability
- Alternate for RL151 ~ RL157



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
		RL151	RL152	RL153	RL154	RL155	RL156	RL157	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current TA = 50°C	IF(AV)	1.5							A
Peak (Non-Repetitive) Forward Surge Current 60Hz Half-Sine Wave, 1 Cycle	IFSM	50							A
Forward Voltage Drop IFM = 1.5A	VFM	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 _{θJA} ^(Note)	25							°C/W
	R _{θJL} ^(Note)	20							
Operating Temperature Range	TJ	-55 to +125 / -55 to +175 for (G)							°C
Storage Temperature Range	TSTG	-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

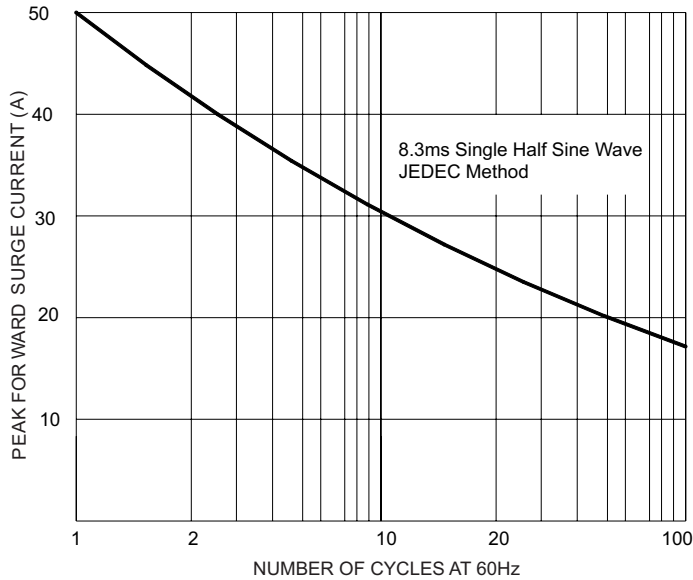


FIG.2-MAXIMUM FORWARD CURRENT DERATING

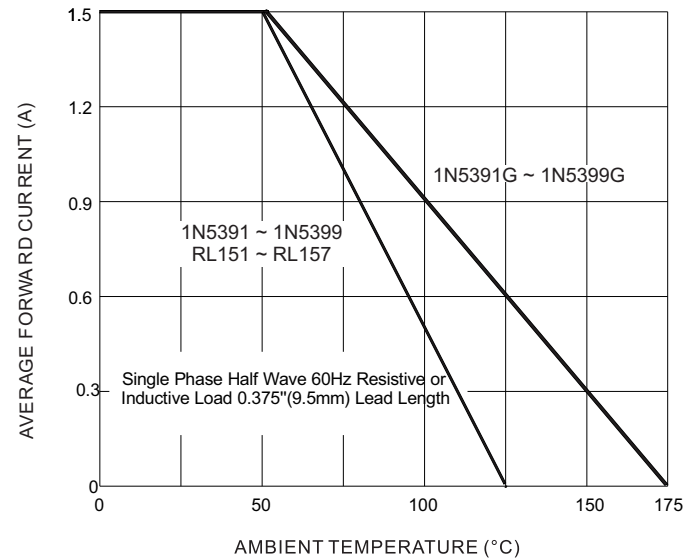


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

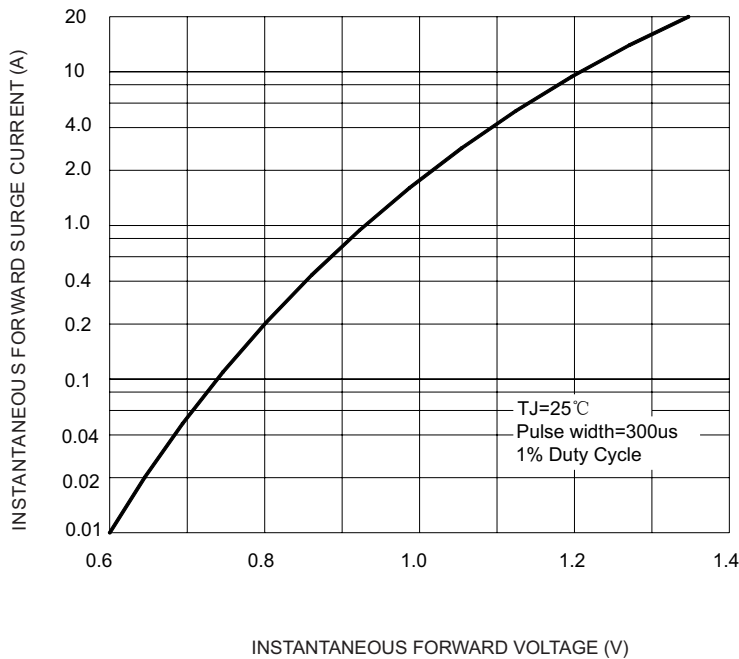


FIG.4-TYPICAL REVERSE CHARACTERISTICS

