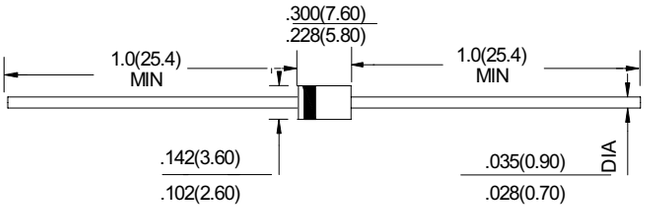
GENERAL PURPOSE RECTIFIER
1N5391 (G) Thru 1N5399 (G) 1.5A

RFE INTERNATIONAL

RoHS

FEATURES

- 1.5 amps, 50 to 1000V
- Available with glass passivated chip junction, suffix G
- Low forward voltage drop
- High reliability
- Alernate 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℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capactitive 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	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 = 50ºC	$I_{F(AV)}$	1.5							A
Peak (Non-Repetitive) Forward Surge Current 60Hz Half-Sine Wave, 1 Cycle	I_{FSM}	50							A
Forward Voltage Drop IFM = 1.5A	V_{FM}	1.1							V
Peak DC Reverse Current @ TA = 25ºC @ TA = 125ºC	I_{RRM1} I_{RRM2}	5 50							mA
Typical Thermal Resistance Junction to Lead	$R_{\theta JA}$ (Note)	25							ºC/W
	$R_{\theta JL}$ (Note)	20							
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.

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RATING & CHARACTERISTIC CURVES

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

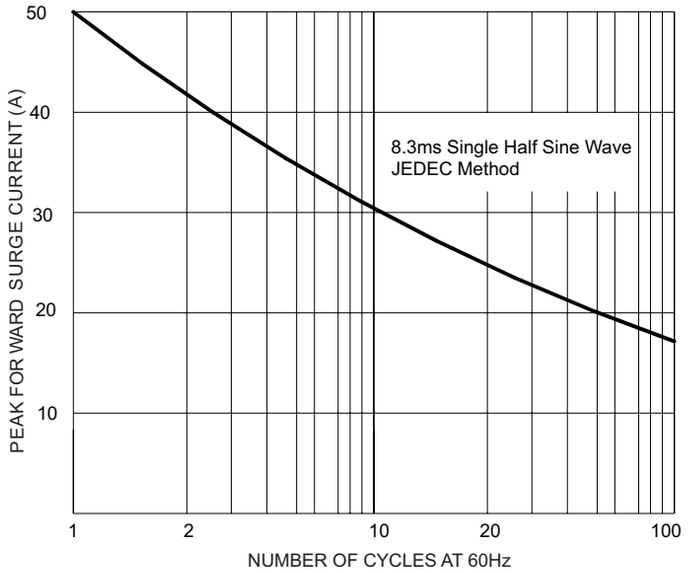


FIG.2-MAXIMUM FORWARD CURRENT DERATING

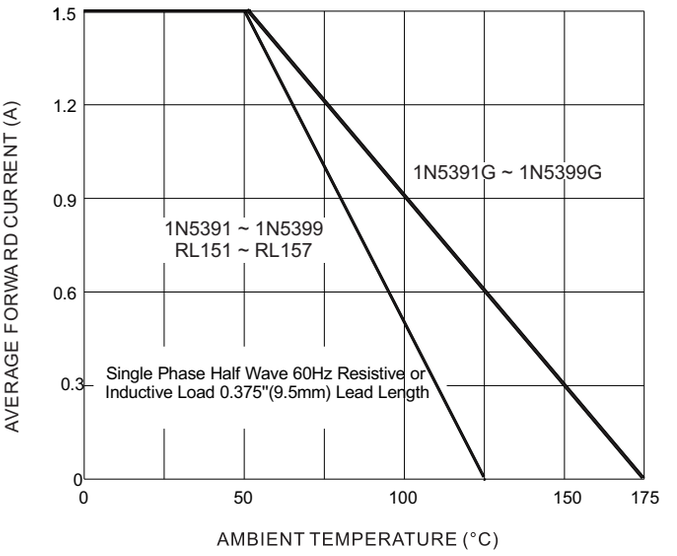


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

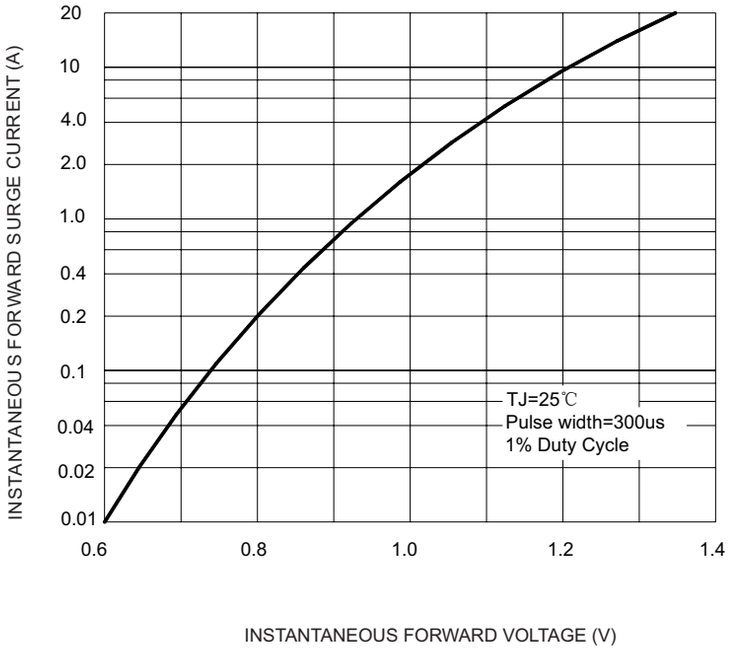
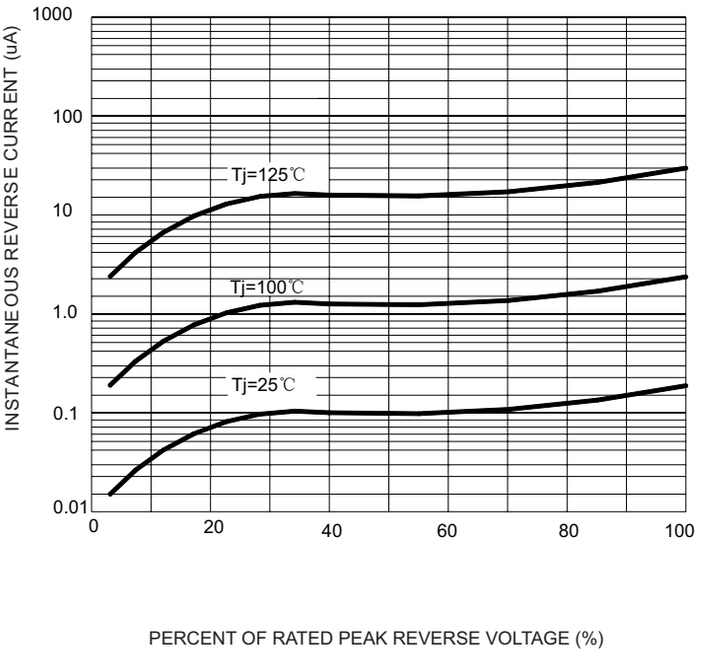


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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