

### GLASS PASSIVATED RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V  
CURRENT: 1.5 A

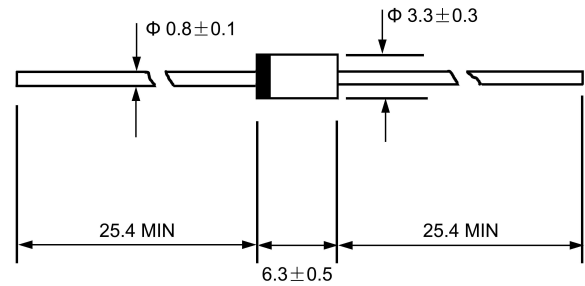
#### FEATURES

- ◇ The plastic package carries underwrites laboratory flammability classification 94V-O
- ◇ High current capability
- ◇ Low reverse leakage
- ◇ Glass passivated junction
- ◇ Low forward voltage drop
- ◇ High temperature soldering guaranteed:  
350°C/10 seconds, 0.375"(9.5mm) lead length, 5lbs, (2.3kg) tension

#### MECHANICAL DATA

- ◇ Case: JEDEC DO-15, molded plastic
- ◇ Terminals: Axial lead, solderable per MIL-STD-202, Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.014 ounces 0.39 grams
- ◇ Mounting position: Any

#### DO - 15



Dimensions in millimeters

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

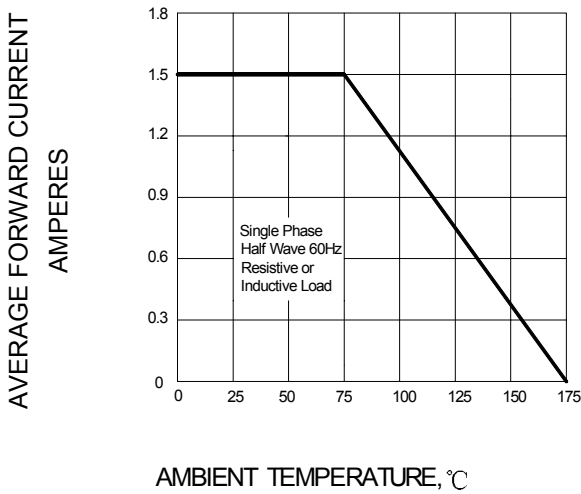
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		1N 5391G	1N 5392G	1N 5393G	1N 5394G	1N 5395G	1N 5396G	1N 5397G	1N 5398G	1N 5399G	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	300	400	500	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	300	400	500	600	800	1000	V
Maximum average forward rectified current 9.5mm lead length, @ $T_A=75^\circ\text{C}$	$I_{F(AV)}$	1.5									A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ\text{C}$	$I_{FSM}$	50.0									A
Maximum instantaneous forward voltage @ 1.5 A	$V_F$	1.1									V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$	$I_R$	5.0 50.0									$\mu\text{A}$
Typical junction capacitance (Note1)	$C_J$	20.0									pF
Operating junction temperature range	$T_J$	- 50 --- + 175									°C
Storage temperature range	$T_{STG}$	- 50 --- + 175									°C

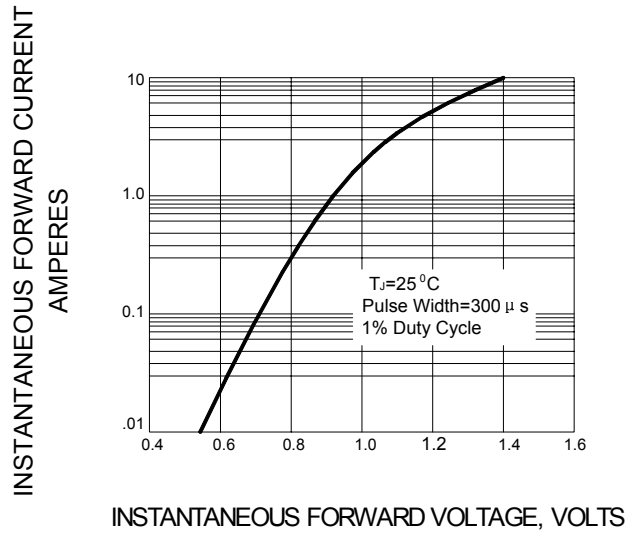
NOTE: Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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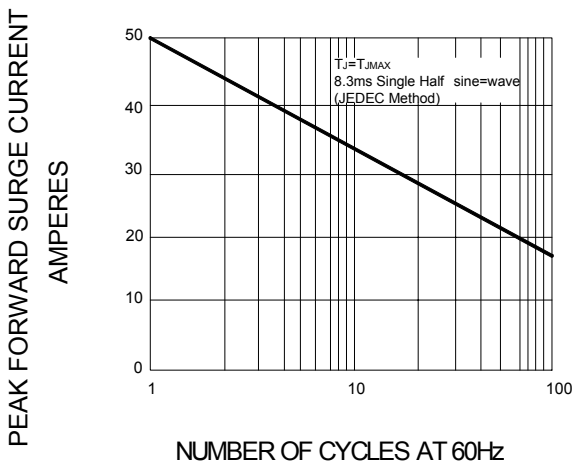
**FIG.1 – FORWARD CURRENT DERATING CURVE**



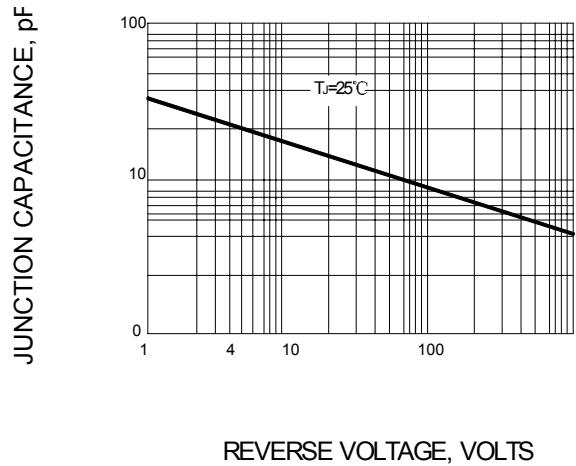
**FIG.2 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.3 – PEAK FORWARD SURGE CURRENT**



**FIG.4 – TYPICAL JUNCTION CAPACITANCE**



**FIG.5 – TYPICAL REVERSE CHARACTERISTICS**

