GLASS PASSIVATED RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 3.0 A

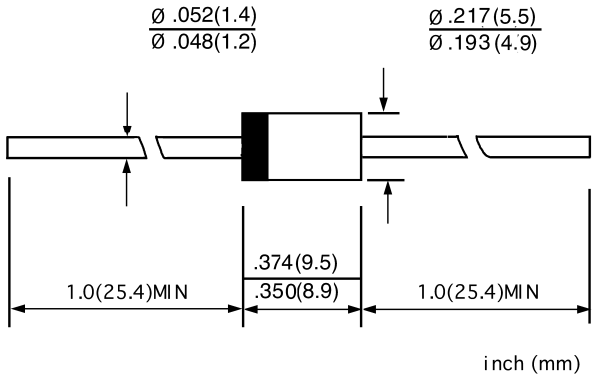
FEATURES

- ◇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℃/10 seconds, 0.375"(9.5mm) lead length, 5lbs, (2.3kg) tension

MECHANICAL DATA

- ◇Case:JEDEC DO--27,molded plastic
- ◇Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- ◇Polarity: Color band denotes cathode
- ◇Weight: 0.041 ounces,1.15 grams
- ◇Mounting position: Any

DO - 27



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		1N 5400G	1N 5401G	1N 5402G	1N 5403G	1N 5404G	1N 5405G	1N 5406G	1N 5407G	1N 5408G	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℃	$I_{F(AV)}$	3.0									A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T_J=125℃	I_{FSM}	200.0									A
Maximum instantaneous forward voltage at 3.0 A	V_F	1.1									V
Maximum reverse current @T_A=25℃	I_R	10.0									μA
at rated DC blocking voltage @T_A=100℃		100.0									
Typical junction capacitance (Note1)	C_J	35.0									pF
Typical thermal Resistance (Note2)	$R_{\theta JA}$	20.0									℃/W
Operating junction temperature range	T_J	- 55 ---- + 175									℃
Storage temperature range	T_{STG}	- 55 ---- + 175									℃

NOTE: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Thermal Resistance Junction Ambient.

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FIG.1 –FORWARD CURRENT DERATING CURVE

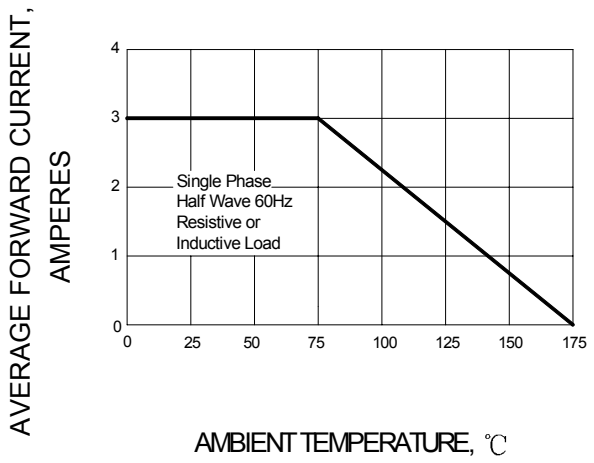

FIG.2–TYPICAL FORWARD CHARACTERISTIC

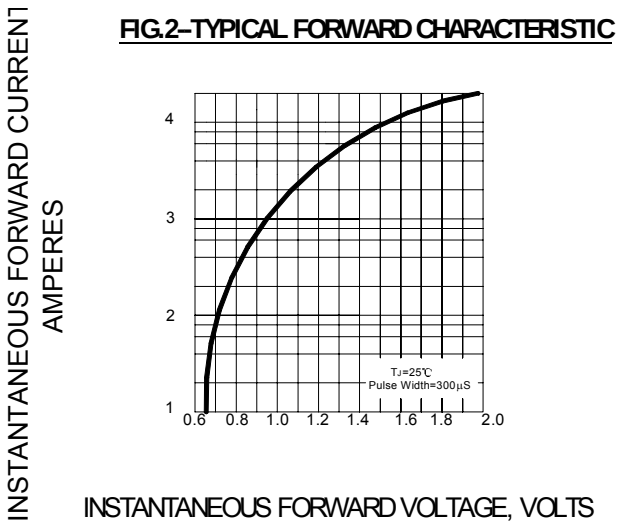

FIG.3 – PEAK FORWARD SURGE CURRENT

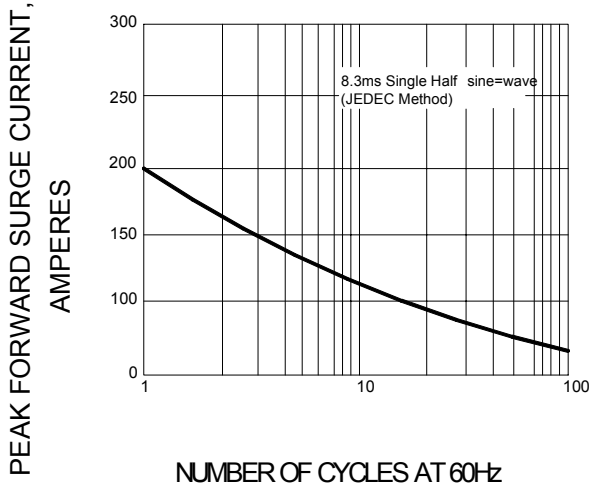

FIG.4 – TYPICAL JUNCTION CAPACITANCE

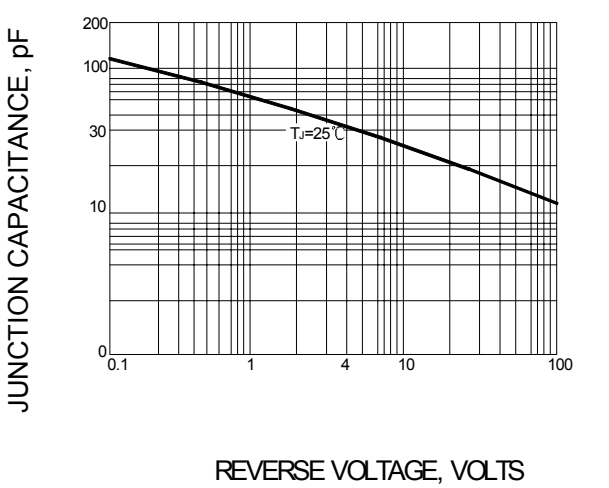

FIG.5 – TYPICAL REVERSE CHARCTERISTICS