SAMYANG ELECTRONICS

2A01G --- 2A07G

GLASS PASSIVATED RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 2.0 A

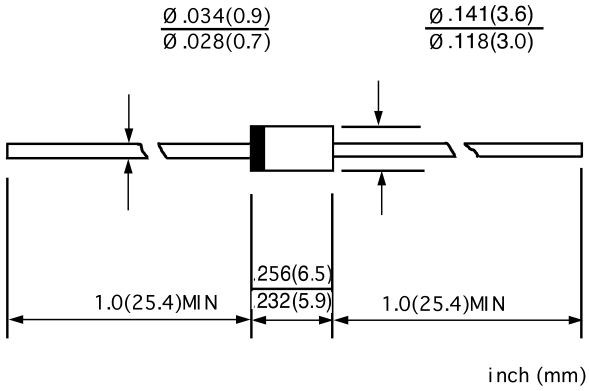
FEATURES

- ◇ Low cost
- ◇ Glass passivated junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Freon,Alcohil,Isopropanop and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

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

DO - 15



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%.

		2A01G	2A02G	2A03G	2A04G	2A05G	2A06G	2A07G	UNITS
Maximum recurrent 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 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	65.0							A
Maximum instantaneous forward voltage @2.0A DC	V_F	1.1							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=125℃	I_R	5.0 200							μA
Typical junction capacitance (Note1)	C_J	40							pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	18							℃
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 from junction to ambient.

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FIG.1 –TYPICAL FORWARD CURRENT DERATING CURVE

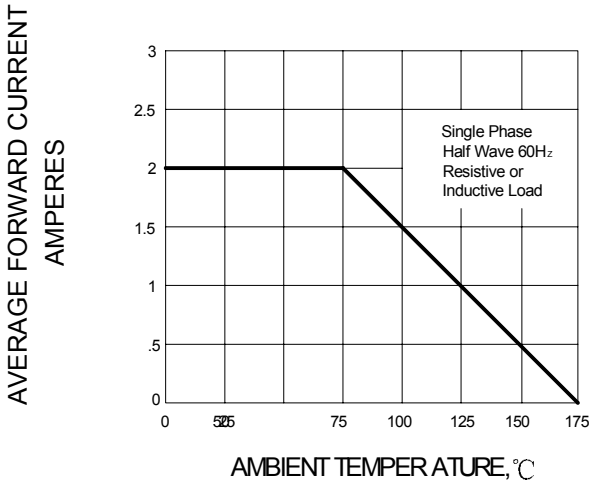


FIG.2 –TYPICAL REVERSE CHARACTERISTICS

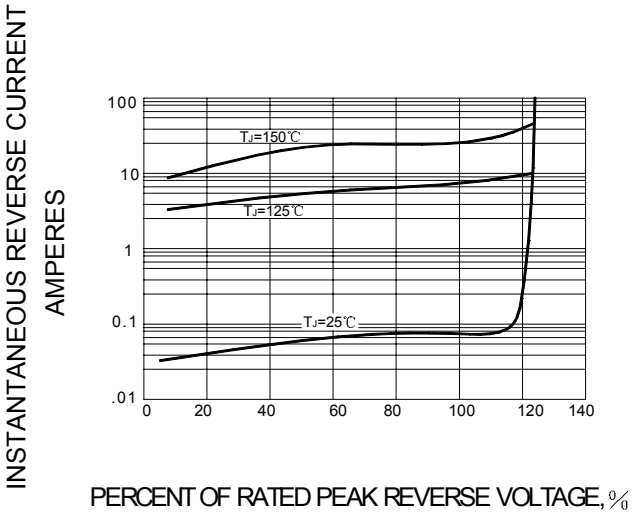


FIG.3–TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

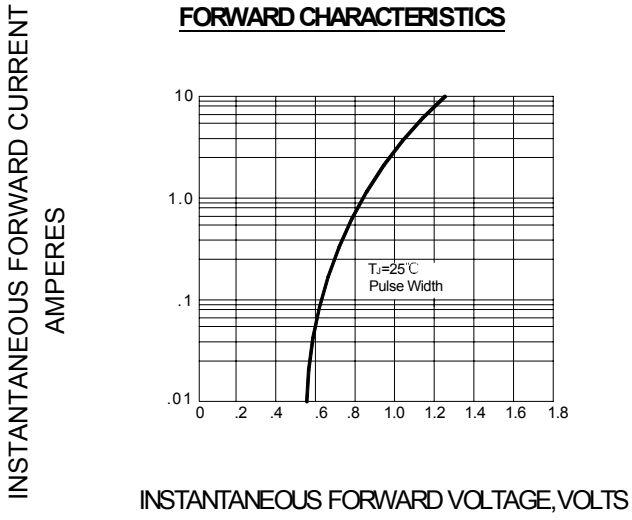


FIG.4–PEAK FORWARD SURGE CURRENT

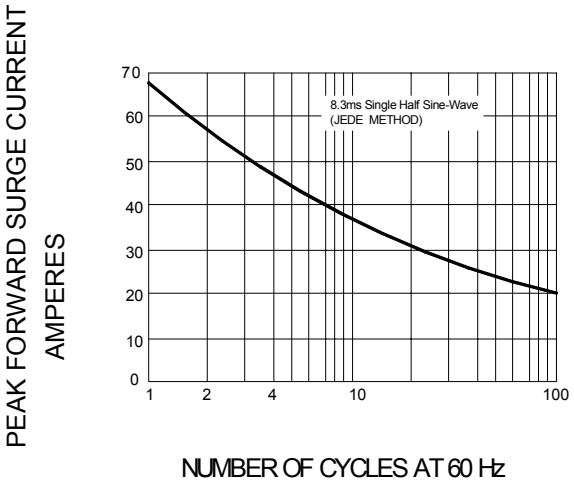


FIG.5–TYPICAL JUNCTION CAPACITANCE

