SAMYANG ELECTRONICS

2A01 --- 2A07

PLASTIC SILICON RECTIFIER

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

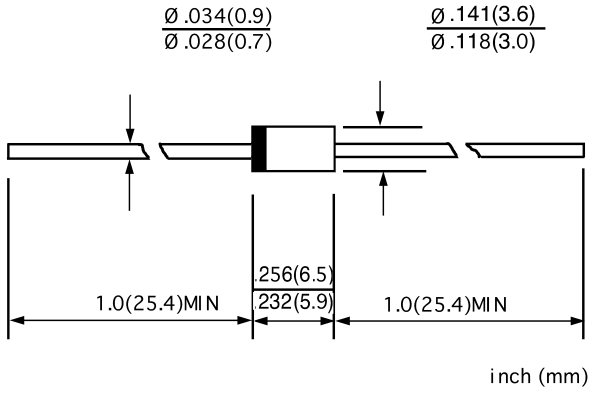
FEATURES

- ◇ Low cost
- ◇ Diffused junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Freon,Alcohol,Isopropanol 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,Method208
- ◇ Polarity: Color band denotes cathode end
- ◇ Mounting position: Any
- ◇ Weight: 0.014 ounces,0.39 grams

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%.

		2A 01	2A 02	2A 03	2A 04	2A 05	2A 06	2A 07	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 forw ard rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	2.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimpoded on ratde load @T_J=125℃	I_{FSM}	70.0							A
Maximum instantaneous forw ard voltage @ 2.0 A	V_F	1.1							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	5.0 50.0							μA
Typical junction capacitance (Note1)	C_J	20							pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	40							℃
Operaring junction temperature range	T_J	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

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 – FORWARD DERATING CURVE

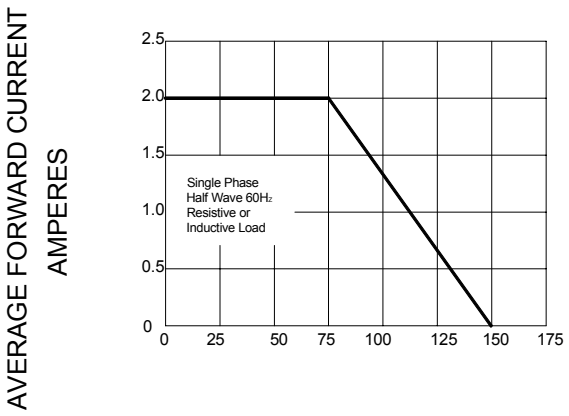


FIG.2 – TYPICAL FORWARD CHARACTERISTIC

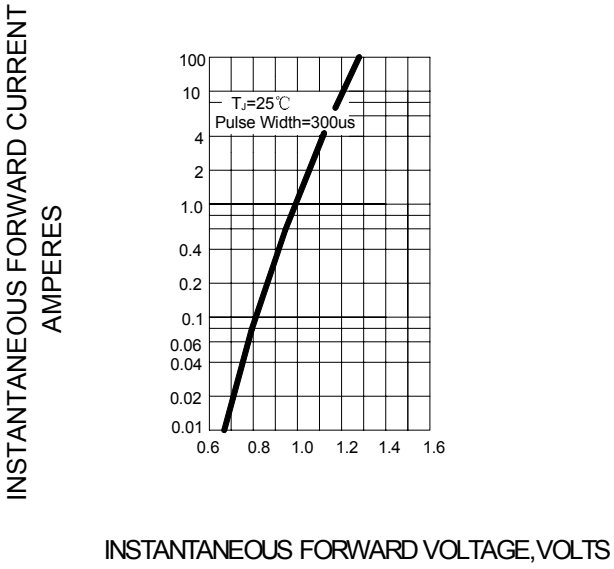


FIG.3 – PEAK FORWARD SURGE CURRENT

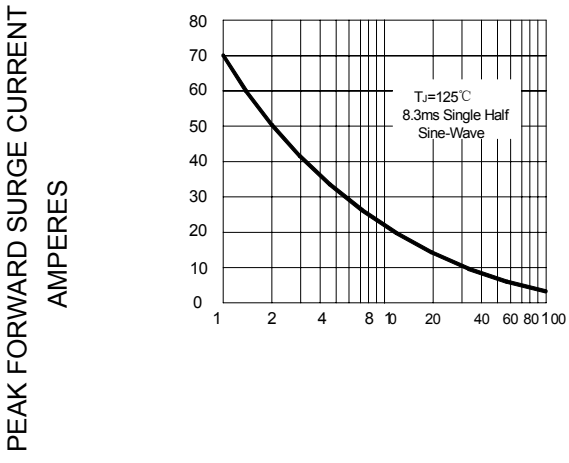


FIG.4 –TYPICAL JUNCTION CAPACITANCE

