GS2A THRU GS2M

2AMP. GLASS PASSIVATED SURFACE MOUNT RECTIFIERS

FEATURE

- .High current capability,
- .Low forward voltage drop
- .Low power loss, high efficiency
- .High surge capability
- .High temperature soldering guaranteed 260°C /1 0sec/0.375" lead length at 5 lbs tension
- .For surface mounted application.
- .Easy pick and place.

MECHANICAL DATA

- .Case: Molded plastic
- .Epoxy: UL94V-0 rate flame retardant
- .Lead: MIL-STD- 202E, Method 208 guaranteed
- .Polarity:Color band denotes cathode end
- .Packaging:12mm tape per EIA STD RS-481
- .Mounting position: Any

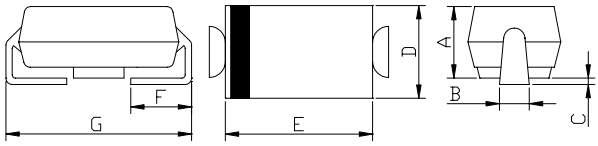

Fig1: SMA/DO-214AC*
FOR OPEN JUNCTION DICE PACKAGING OUTLINE

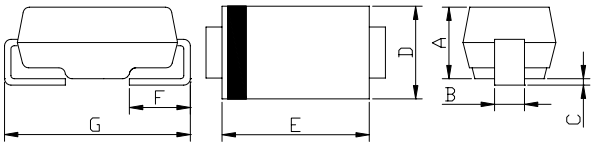

Fig2: SMA/DO-214AC
FOR GLASS PASSIVATED DICE PACKAGING OUTLINE

NO	Fig1（mm）	Fig2（mm）
A	1.9～2.4	1.98～2.3
B	1.2～1.8	1.35～1.6
C	0.23MAX	0.2MAX
D	2.4～2.9	2.4～2.9
E	3.8～4.6	3.8～4.6
F	0.8～1.8	0.8～1.8
G	4.8～5.80	4.8～5.80

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

Type Number	SYMBOL	S2A	S2B	S2D	S2G	S2J	S2K	S2M	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 at TL =100°C	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	60.0							A
Maximum Forward Voltage at 2A DC	V_F	1.0							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I_R	5.0 125.0							μA
Typical Junction Capacitance (Note1)	Cj	30							pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	75							°C /W
Storage Temperature	T_{STG}	-55 to +150							°C
Operation Junction Temperature	T_J	-55 to +125							°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375"（9.5mm）lead length,

RATING AND CHARACTERISTIC CURVES (GS2A THRU GS2M)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

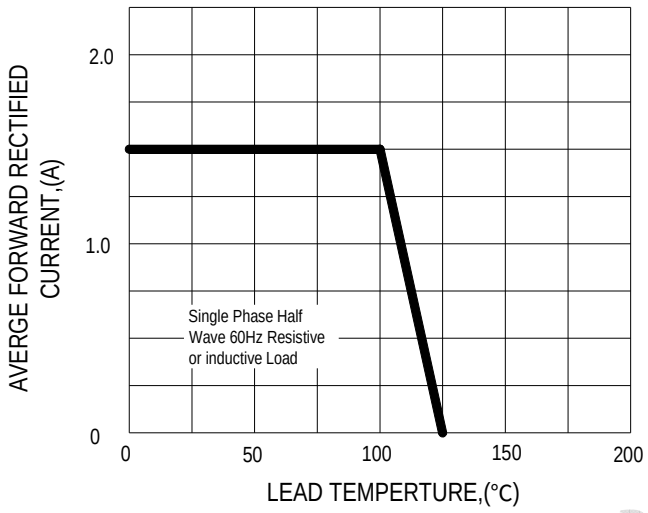

FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

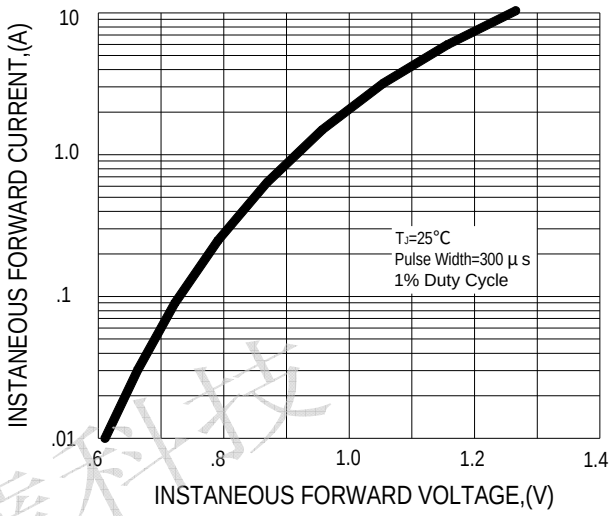

FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

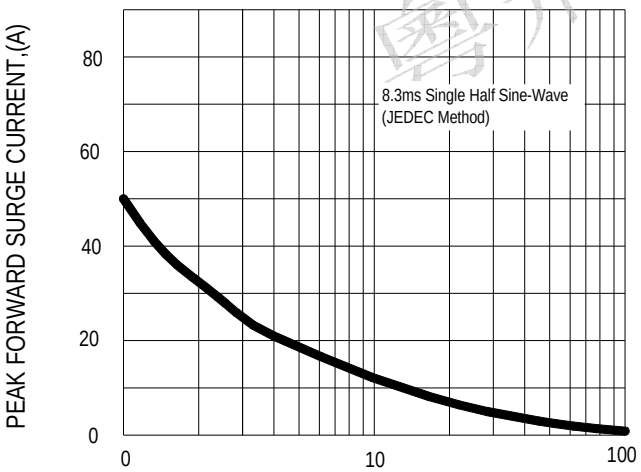

FIG.4-TYPICAL REVERSE CHARACTERISTICS