S2X SERIES

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER

产品规格确认书

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S2A THRU S2M

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER

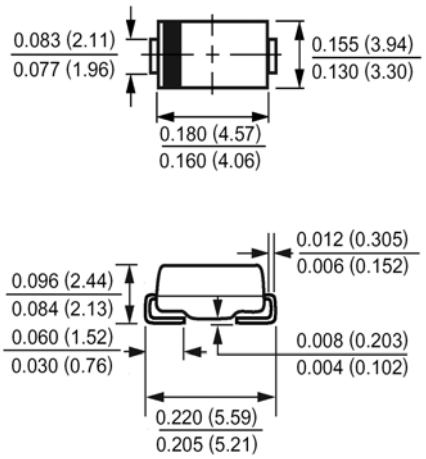
康 比 電 子
HORNBY ELECTRONIC

REVERSE VOLTAGE: **50 to 1000 VOLTS**
FORWARD CURRENT: **2.0 AMPERE**

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop
- High temperature soldering : 250°C /10 seconds at terminals

DO214-AA(SMB)



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, DO-214AA(SMB)
Terminals: Solder plated, solderable per MIL-STD-750, method 2026 guaranteed
Polarity: Color band denotes cathode end
Packaging: 12mm tape per EIA STD RS-481
Weight: 0.003 ounce, 0.093 gram

Maximum Ratings and Electrical Characteristics

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

	Symbols	*S2A*	*S2B*	*S2D*	*S2G*	*S2J*	*S2K*	*S2M*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	**Volts**
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	**Volts**
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	**Volts**
Maximum Average Forward Rectified Current at T_L=90℃	$I_{(AV)}$	2.0							**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							**Amp**
Maximum Forward Voltage at 2.0A	V_F	1.15							**Volts**
Maximum Reverse Current at T_A=25℃	I_R	5.0							**μAmp**
at Rated DC Blocking Voltage T_A=125℃		125							
Typical Junction Capacitance (Note 1)	C_J	30							**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	16							**℃/W**
Maximum Reverse Recovery Time (Note 3)	T_{RR}	2.5							**μS**
Operating Junction Temperature Range	T_J	-55 to +150							**℃**
Storage Temperature Range	Tstg	-55 to +150							**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal resistance from junction to lead mounted on P.C.B. with 0.3 x 0.3" (8.0 x 8.0mm) copper pad areas

3- Reverse Recovery Test Conditions：I_F=.5A，I_R=1A，I_{RR}=.25A.

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RATINGS AND CHARACTERISTIC CURVES

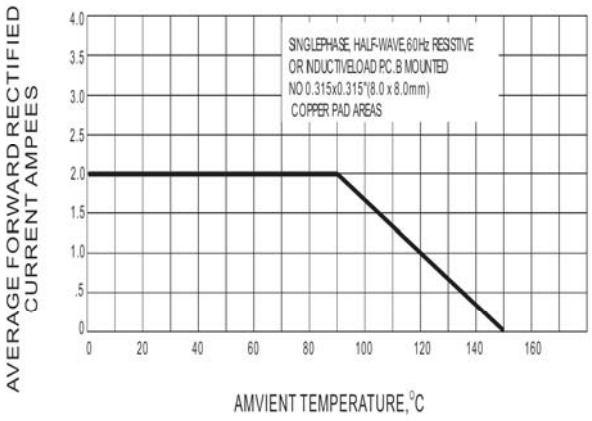


Fig. 3-MAXIMU AVERAGE FORWARD CURRENT RATING

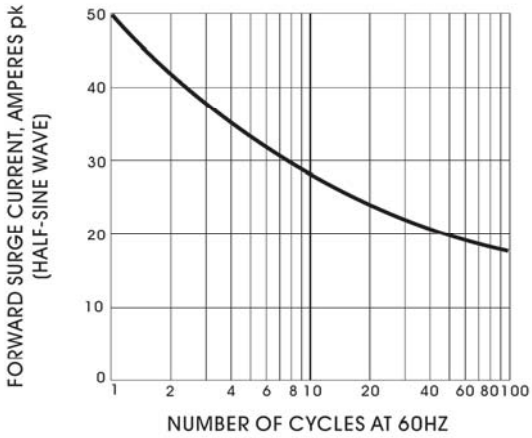


Fig.2-MAXIMUM OVERLOAD SURGE-CURRENT

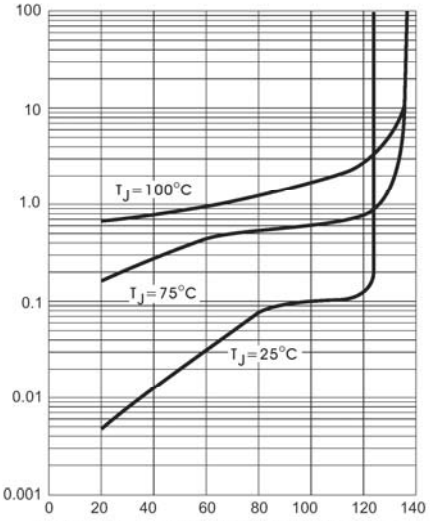


Fig. 3- TYPICAL REAK REVERSE CHARACTERISTICS

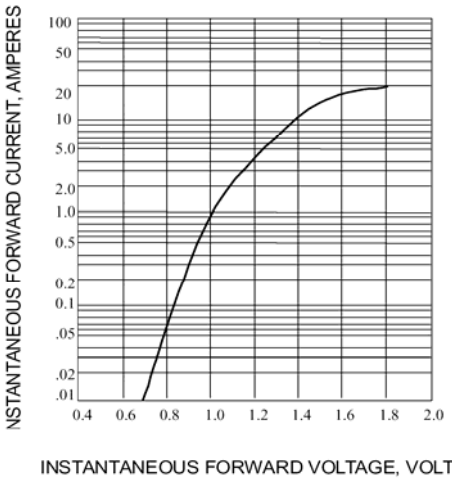


Fig. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

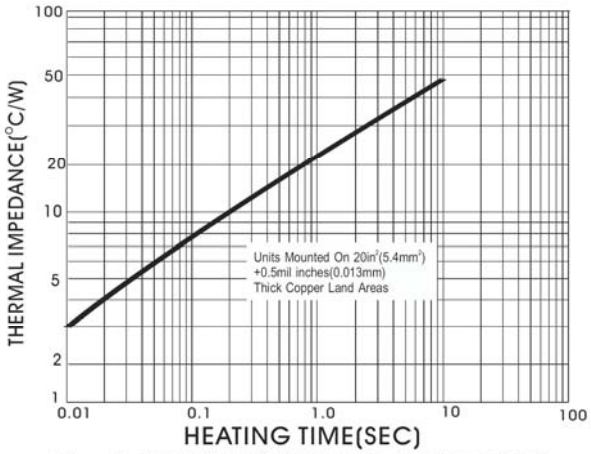


Fig. 5- TRANSIENT THERMAL IMPEDANCE

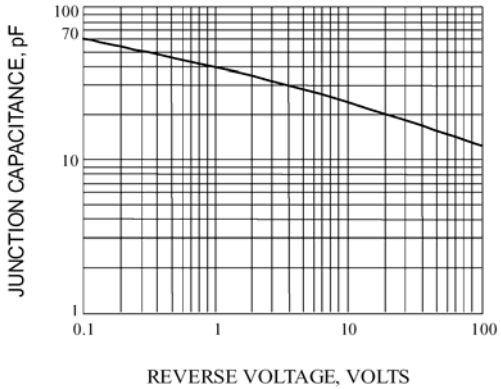


Fig. 6-TYPICAL JUNCTION CAPACITANCE

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