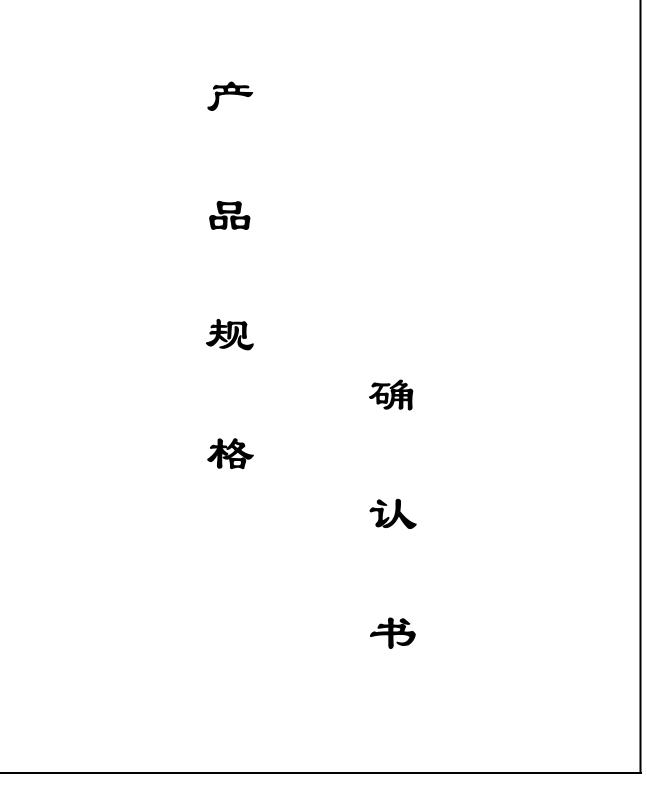
S1X SERIES

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER



S1A THRU S1M

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

50 to 1000 VOLTS 1.0 AMPERE

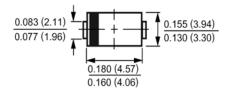
FEATURES

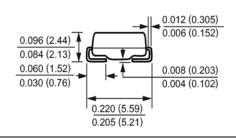
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- · Low profile package
- · Easy pick and place
- · Built-in strain relief
- · Low forward voltage drop
- \cdot High temperature soldering : 250°C /10 seconds at terminals

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

DO214-AA(SMB)





Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

	Symbols	S1A	S1B	S1D	S1G	S1J	S1K	S1M	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 =100℃	I _(AV)	1.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM} 30							Amp	
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 1.0A	V _F	1.1							Volts
Maximum Reverse Current at T _A =25℃	т	5.0							
at Rated DC Blocking Voltage T _A =125°C	IR	I _R 100							μАтр
Typical Junction Capacitance (Note 1)	CJ	12							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	30							°C/W
Maximum Reverse Recovery Time (Note 3)	T _{RR}	2.5							μS
Operating Junction Temperature Range	T _J	-55 to +150							Ĉ
Storage Temperature Range	Tstg	-55 to +150							Ċ

NOTES:

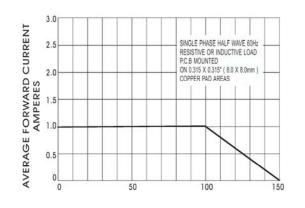
1- Measured at 1 $\ensuremath{\mathsf{MH}}\xspace_Z$ and applied reverse voltage of 4.0 VDC.

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

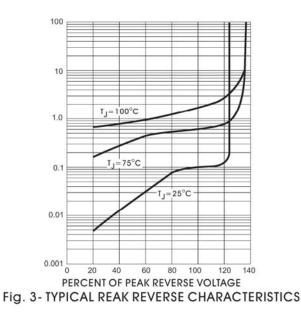
3- Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{RR} =.25A.

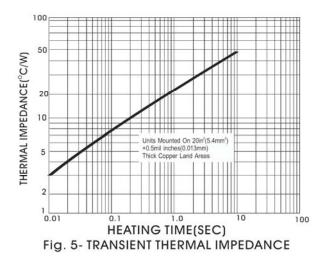


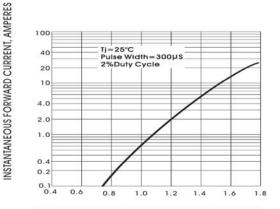
RATINGS AND CHARACTERISTIC CURVES











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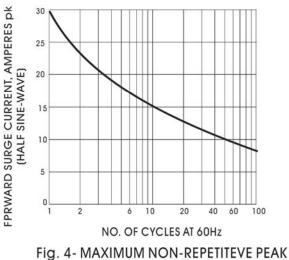
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INSTANTANEOUS FORWARD VOLTAGE, VOLTS Fig. 2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS PER ELEMENT



FORWARD SURGE CURRENT

