Kingtronics®

S1A THRU S1M

SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere

FEATURES

Ideal for surface mount applications

Easy pick and place

Built-in strain relief

High surge current capability

MECHANICAL DATA

Case: Molded plastic

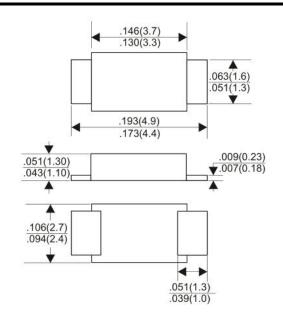
Epoxy: UL 94V-0 rate flame retardant

Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any

SMAF



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

Dimensions in inches and (millimeters)

Catalog Number		SYMBOLS	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNIT
Maximum Repetitive 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		I _(AV)	1							Amps
375"(9.5mm) Lead Length At T _A =75°C										
Peak Forward Surge Current 8.3ms single half sine-wave		I _{FSM}	30							Amps
superimposed on rated load (JEDEC Method) T_L =90°C										
Maximum instantaneous forward voltage per at 1.0A		V _F	1.0						VOLTS	
Maximum DC Reverse Current	T _A =25℃		I _R 5 50					uA		
at Rated DC Blocking Voltage at	T _A =100℃	I R					50			
Typical Junction Capacitance (Note 1)		CJ	9							pF
Typical Thermal Resistance R _q JA (Note 2)		RөлL	110							°CW
Operating and Storage Temperature Rang		T _J , T _{STG}	-55 to +150							$^{\circ}$

Note: 1.Measured at 1MHZ and applied reverse voltage of 4.0VD.C

2. Thermal resistance from junction to ambient

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RATINGS AND CHARACTERISTIC CURVES

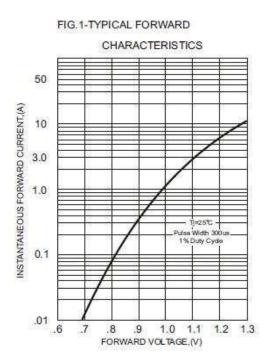


FIG.3 - TYPICAL REVERSE

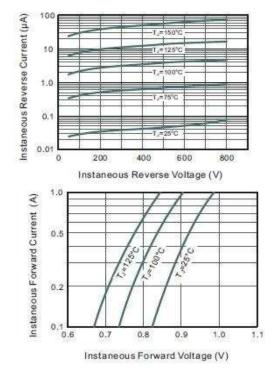


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

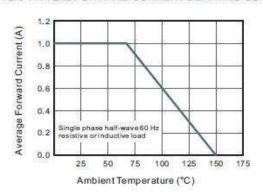


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

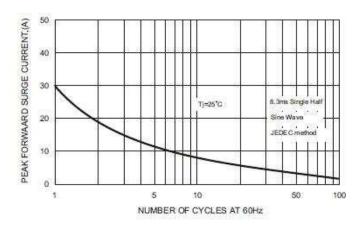
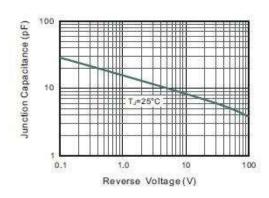


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.

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