

# Kingtronics®

# GS1A THRU GS1M

## SURFACE MOUNT GENERAL RECTIFIER

**REVERSE VOLTAGE** 50 to 1000 Volts    **FORWARD CURRENT** 1.0 Ampere

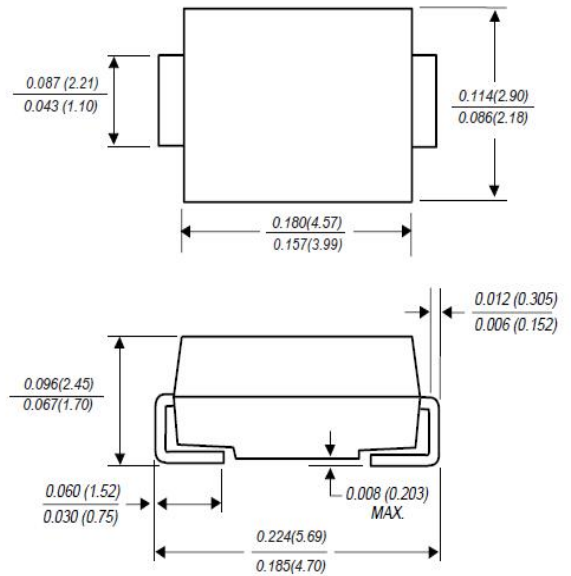
### FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:  
250°C/10 seconds at terminals

### MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

### SMA (DO-214AC)



### 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)

PARAMETER	SYMBOL	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	UNIT
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 $T_L=55^\circ\text{C}$	$I_{(AV)}$	1.0							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	$V_F$	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	$I_R$	5.0 50							$\mu\text{A}$
Typical Junction Capacitance (Note 1)	$C_J$	15.0							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	75.0							$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{stg}$	-65 to +175							$^\circ\text{C}$

1- Measured at 1MHZ and applied reverse voltage of 4.0V D.C.

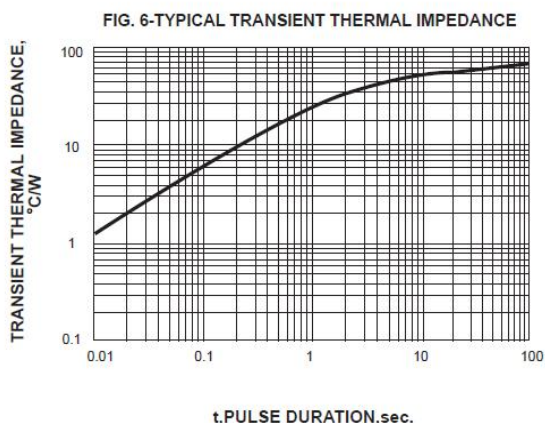
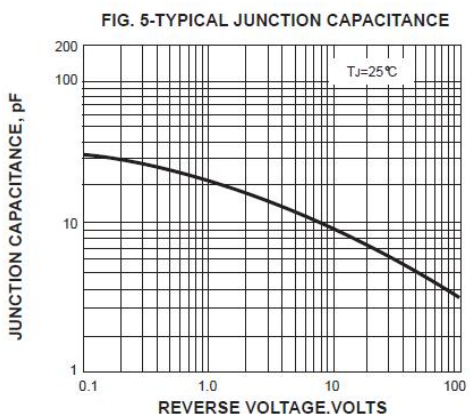
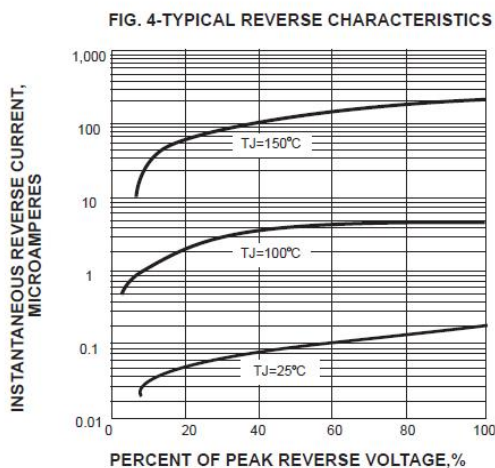
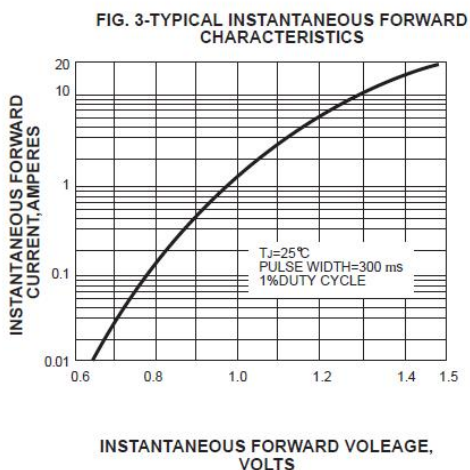
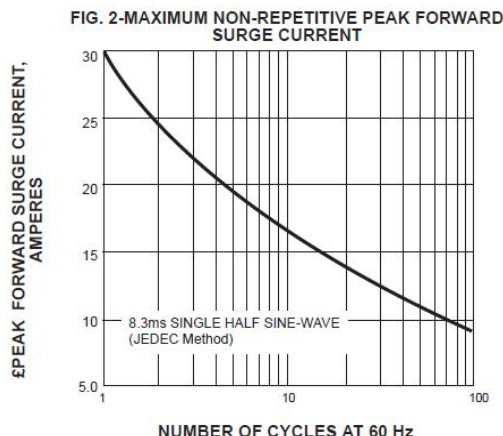
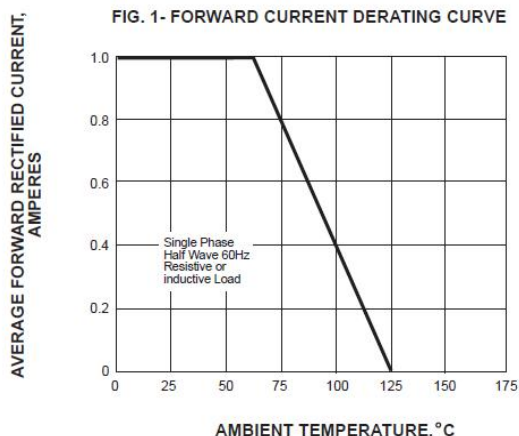
2- P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

**Kingtronics® International Company**

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## RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.

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