

Kingtronics®**GS2AA THRU
GS2MA**

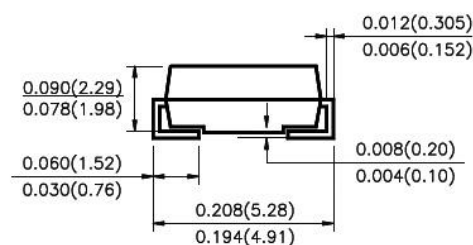
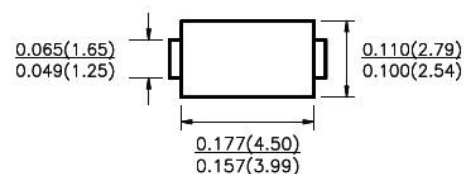
SURFACE MOUNT GLASS PASSIVATED RECTIFIER
REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 2.0 Ampere

FEATURES

Plastic package has underwrites laboratory flammability
 Classification 94V-0
 For surface mounted applications
 Low profile package
 Built-in strain relief, ideal for automated placement
 Glass passivated chip junction
 High temperature soldering guaranteed
 250°C/10 second at terminals

MECHANICAL DATA

Case: JEDED DO-214AC molded plastic over glass passivated chip
 Terminals: Solder plated, solderable per MIL-STD-750, method 2026
 Polarity: Color band denotes cathode end

DO-214AC (SMA)**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified , Dimensions in inches and (millimeters)
MAXIMUM RATINGS & THERMAL CHARACTERISTICS

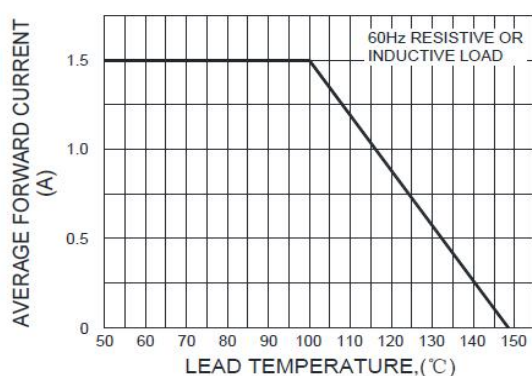
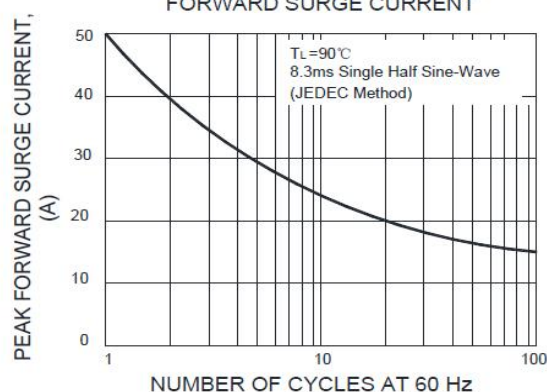
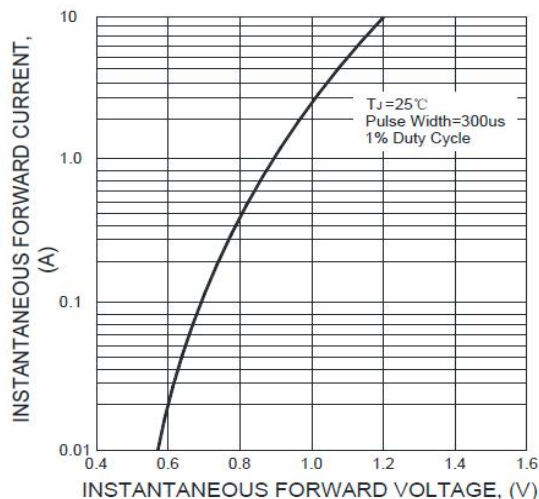
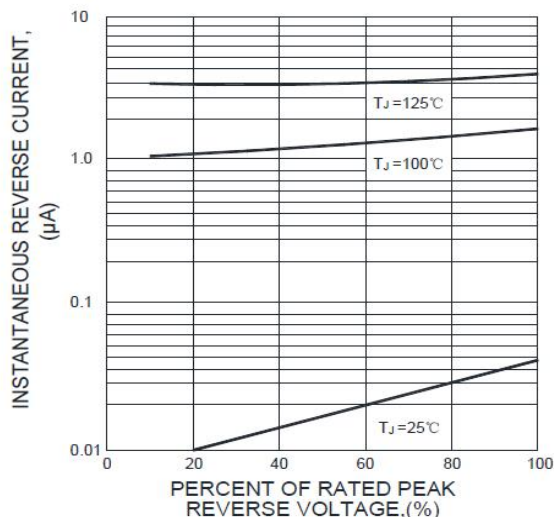
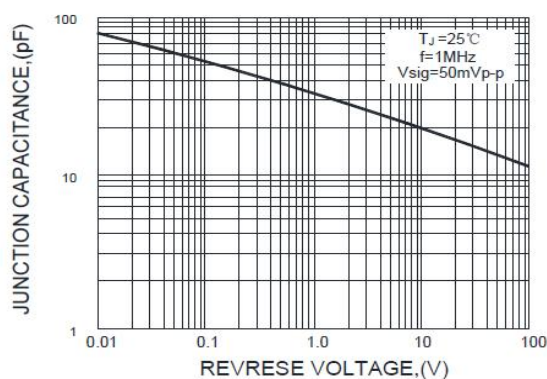
	SYMBOLS	GS2AA	GS2BA	GS2DA	GS2GA	GS2JA	GS2KA	GS2MA	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at T _L = 100°C	I _{F(AV)}	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) T _L = 100°C	I _{FSM}	50							Amps
Typical Thermal Resistance (Note 1)	R _{θJA}	53							°C/W
	R _{θJL}	16							
Operating junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150							°C

ELECTRICAL CHARACTERISTICS

		SYMBOLS	GS2AA	GS2BA	GS2DA	GS2GA	GS2JA	GS2KA	GS2MA	UNIT
Maximum Instantaneous Forward Voltage at 1.5A		V _F	1.10							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25°C	I _R	5.0							uA
	T _A =125°C		200							
Typical Reverse Recovery Time at I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		T _{rr}	2.5							us
Typical junction capacitance at 4.0V, 1MHz		C _J	30							pF

1- Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.3 \times 0.3''$ ($8.0 \times 8.0\text{mm}$) copper pad areas.

Kingtronics® International Company

Kingtronics®**GS2AA THRU
GS2MA****RATINGS AND CHARACTERISTIC CURVES****F1G.1-FORWARD CURRENT
DERATING CURVE****F1G.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT****F1G.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS****F1G.4-TYPICAL REVERSE
CHARACTERISTICS****F1G.5-TYPICAL JUNCTION CAPACITANCE**

Note: Specifications are subject to change without notice.

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