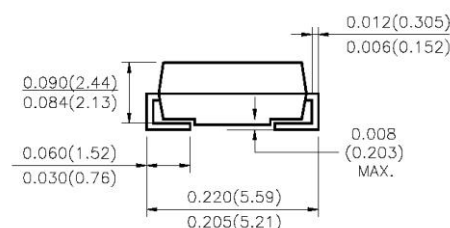
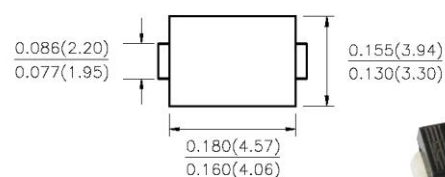


Kingtronics®**GS2A THRU GS2M****SURFACE MOUNT GLASS PASSIVATED RECTIFIER****VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere****FEATURES**

- 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-214AA molded plastic over glass passivated chip
Terminals: Solder plated, Solderable per MIL-STD-750, method 2026
Polarity: Color band denotes cathode end

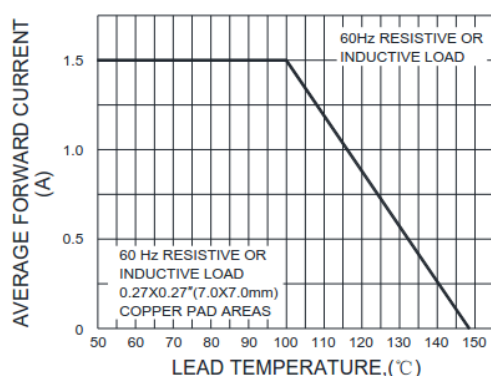
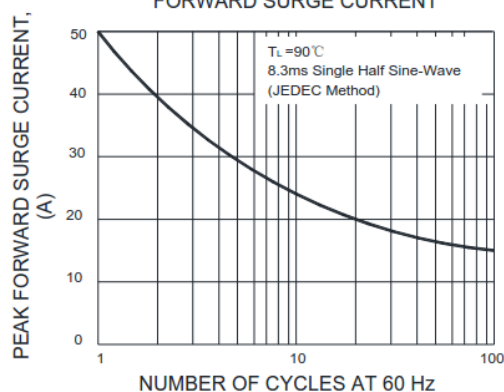
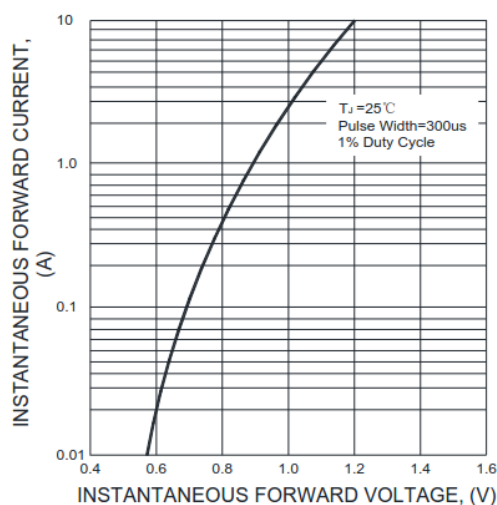
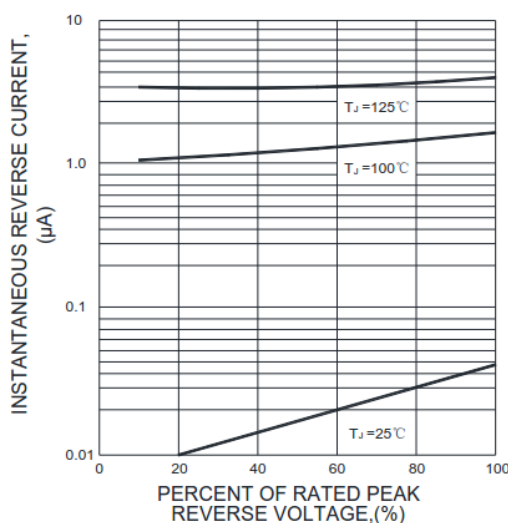
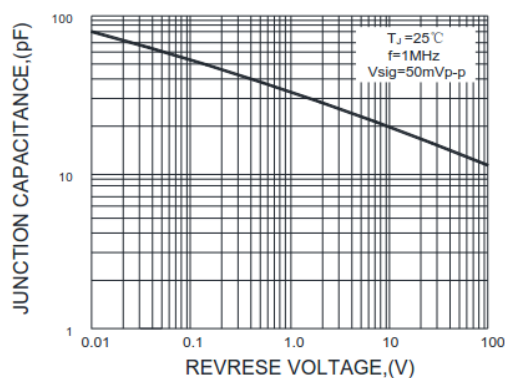
DO-214AA (SMB)**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS****Dimensions in inches and (millimeters)****Ratings at 25°C ambient temperature unless otherwise specified**

PARAMETER		SYMBOL	GS2A	GS2B	GS2D	GS2G	GS2J	GS2K	GS2M	UNITS
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 and Storage Temperature Range		T _J , T _{STG}	-55 to +150							°C
Maximum Instantaneous Forward Voltage at 1.5A		V _F	1.15							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25°C	I _R	5.0							µA
	T _A = 125°C		125							
Typical Reverse Recovery Time at I _F =0.5A, I _R =1.0A, I _{RR} =0.25A,		T _{rr}	2.0							µs
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 0.3×0.3" (8.0 × 8.0mm) copper pad areas.

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Kingtronics®**GS2A THRU GS2M****RATINGS AND CHARACTERISTIC CURVES****FIG.1-FORWARD CURRENT
DERATING CURVE****FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT****FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS****FIG.4-TYPICAL REVERSE
CHARACTERISTICS****FIG.5-TYPICAL JUNCTION CAPACITANCE**

Note: Specifications are subject to change without notice.

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