Kingtronics®

GS2A THRU GS2M

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts

CURRENT 2.0 Ampere

DO-214AA (SMB)

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

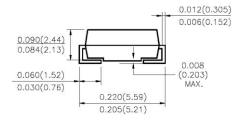
High temperature soldering guaranteed 250°C/10 second at terminals

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

0.086(2.20) 0.077(1.95) 0.180(4.57) 0.160(4.06)



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 $T_L = 100^{\circ}\mathrm{C}$		I _{F(AV)}	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) $T_L = 100^{\circ}C$		I _{FSM}	50							Amps
Typical Thermal Resistance (NOTE 1)		$R_{\theta JA}$	53							- °C/W
		R _{θJL}	16							
Operating and Storage Temperature Range		T_J, T_{STG}	-55 to +150							$^{\circ}$
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							μΑ
	T _A = 125℃	IR	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		CJ	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.

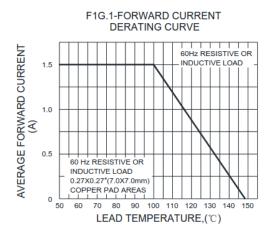
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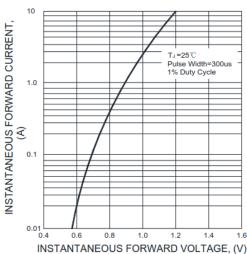
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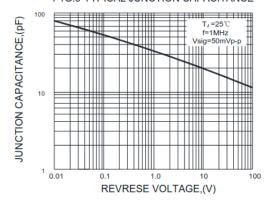
RATINGS AND CHARACTERISTIC CURVES



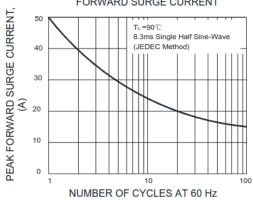
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



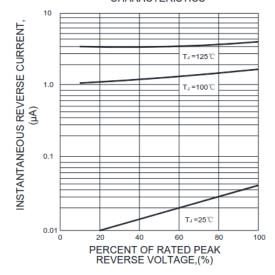
F1G.5-TYPICAL JUNCTION CAPACITANCE



F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice.

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