GOOD-ARK
SEMICONDUCTOR

GR2A thru GR2M

Fast Recovery Surface Mount Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 2.0 Amperes

Features

- Glass passivated junction chip
- For surface mounted application
- Low forward voltage drop
- Low profile package
- Built-in strain relief, ideal for automated placement
- Fast switching for high efficiency
- High temperature soldering: 260℃/10 seconds at terminals
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0



Package: DO-214AA (SMB)

Mechanical Data

- Case: Molded plastic
- Terminals: Solder plated
- Polarity: Indicated by cathode end
- Weight:0.003ounce, 0.093gram

RoHS
COMPLIANT

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter		Symbols	GR2A	GR2B	GR2D	GR2G	GR2J	GR2K	GR2M	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 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)		I_{FSM}	50.0							Amps
Maximum Instantaneous Forward Voltage at 2A		V_F	1.35							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}	150				250	500		nS
Typical Junction Capacitance at 4.0V, 1MHz		C_J	50							pF
Typical Thermal Resistance(Note 1)		R_{THJA}	55							°C/W
		R_{THJL}	18							
Operating Junction Temperature Range		T_J	-55 to +150							°C
Storage Temperature Range		T_{STG}	-55 to +150							°C

Notes: 1. Thermal resistance form junction to ambient and from junction to lead frame P.C.B. mounted on 0.3×0.3"(8.0×8.0mm) copper pad areas.

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Typical Electrical Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

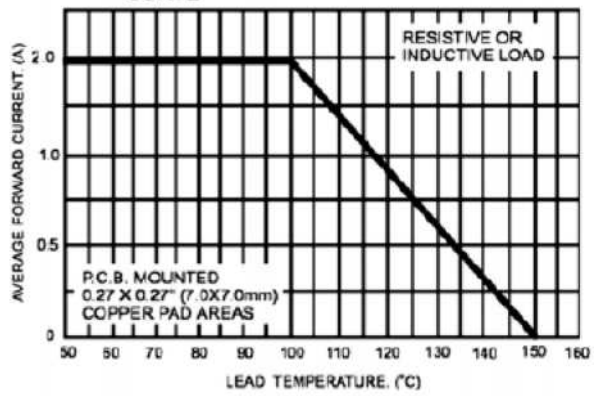


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

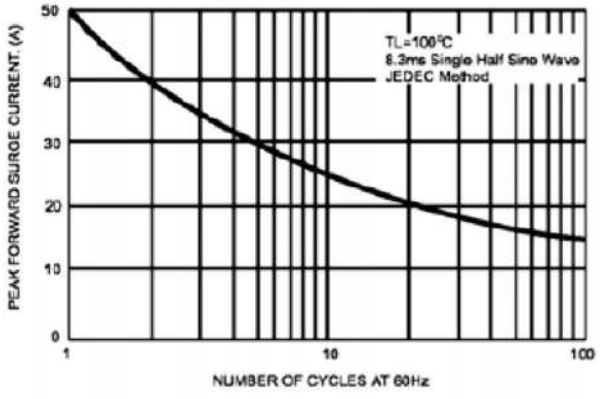


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

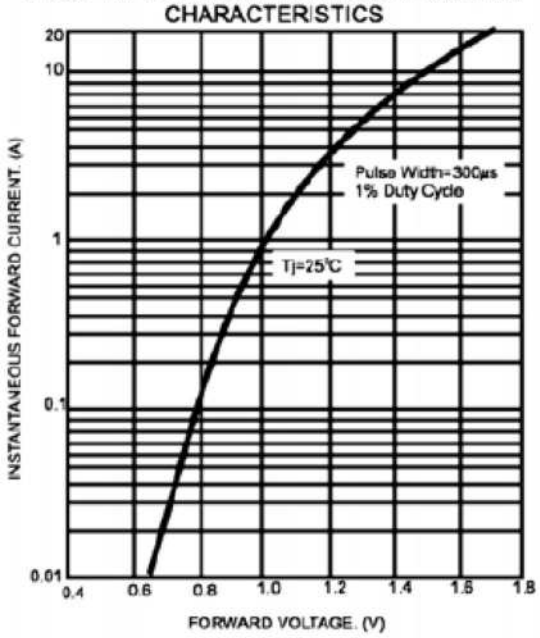


FIG.4- TYPICAL REVERSE CHARACTERISTICS

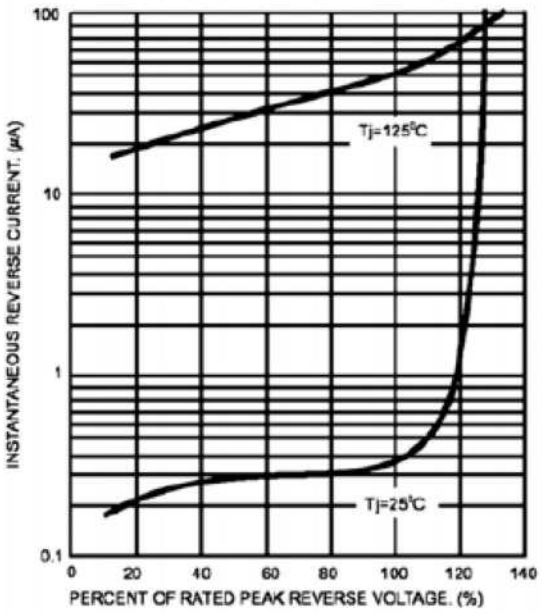
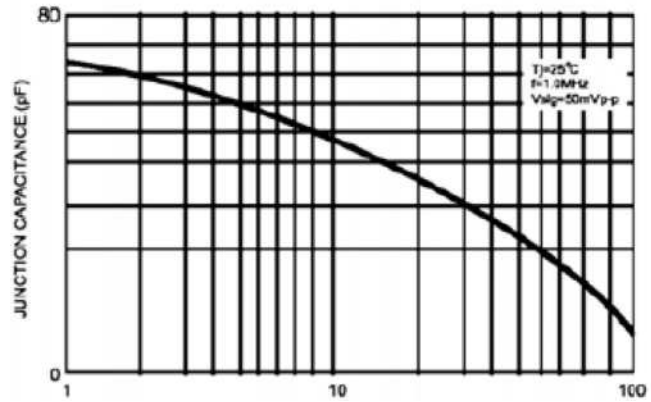


FIG.5- TYPICAL JUNCTION CAPACITANCE



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Package Outline Dimensions

DO-214AA (SMB)

Dimensions in inches and (millimeters)

