

GNOA thru GNOM

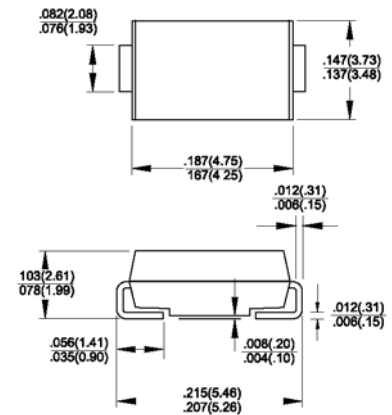
Surface Mount Glass Passivated Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 1.5 Amperes

Features

- ◆ Plastic package has Underwriters 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:
250°C/10 seconds at terminals



DO-214AA (SMB)



Mechanical Data

- ◆ Case: JEDEC DO-214AA (SMB) molded plastic body over glass passivated chip
- ◆ Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Weight: 0.003 ounce, 0.093 gram

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	GNOA	GNOB	GNOTD	GNOG	GNOJ	GNOK	GNOM	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 $T_L=100^\circ\text{C}$	$I_{F(AV)}$	1.5							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) $T_L=100^\circ\text{C}$	I_{FSM}	50.0							Amps
Maximum instantaneous forward voltage at 1.5A	V_F	1.15							Volts
Maximum DC reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	I_R	1.0 125							μA
Typical reverse recovery time at $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $t_{rr}=0.25\text{A}$	t_{rr}	1.0							μs
Typical junction capacitance at 4.0V, 1MHz	C_j	30							pF
Typical thermal resistance (NOTE 1)	$R_{\theta JA}$ $R_{\theta JL}$	53 16							$^\circ\text{C/W}$
Operating junction temperature range	T_j	-55 to +150							$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150							$^\circ\text{C}$

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

RATINGS AND CHARACTERISTIC CURVES

