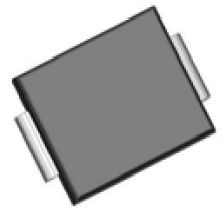


# GN8A thru GN8M

Surface Mount Glass Passivated Standard Rectifier  
Reverse Voltage 50~1000V Forward Current 8A

## Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V
- Low profile
- Build-in strain relief, ideal for automated placement
- Glass passivated chip junction



DO-214AB ( SMC )

## Mechanical Data

- Case: JEDEC DO-214AB (SMC)
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Polarity: color band denotes cathode end

## Maximum Ratings (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	GN8A	GN8B	GN8D	GN8G	GN8J	GN8K	GN8M	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at TL (See Fig.1)	I <sub>F(AV)</sub>	8.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed On Rated Load	I <sub>FSM</sub>	200							A
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	- 55 to + 150							°C

## Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Test Conditions	Symbol	GN8A	GN8B	GN8D	GN8G	GN8J	GN8K	GN8M	Unit
Maximum Instantaneous Forward Voltage	8A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>A</sub> =25°C	I <sub>R</sub>	5							μA
	T <sub>A</sub> =100°C		50							
Typical Thermal Resistance1)	Juntion to Ambient	R <sub>θJA</sub>	28							°C/W
Typical Junction Capacitance	4.0 V, 1 MHz	C <sub>J</sub>	50							pF

Note:1) The thermal resistance from junction to ambient, case or lead, mounted on P.C.B with 30×30mm copper pads

## Ratings and Characteristic Curves

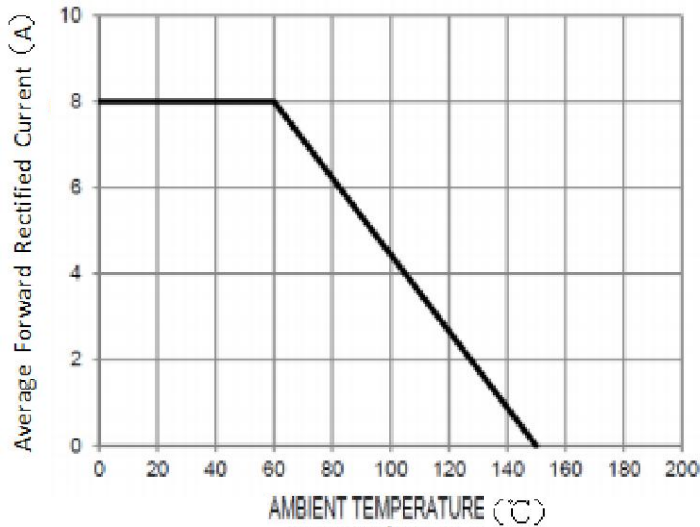


Figure 1. Forward Current Derating Curve

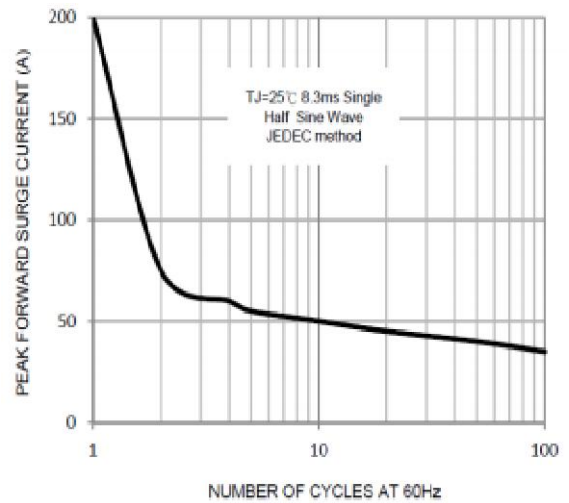


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

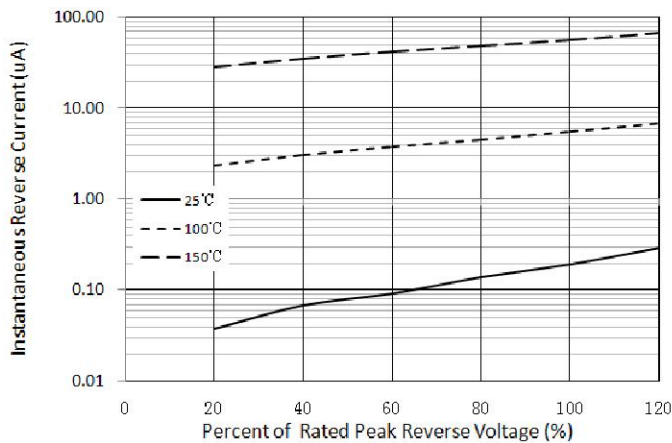


Figure 3. Typical Reverse Characteristics

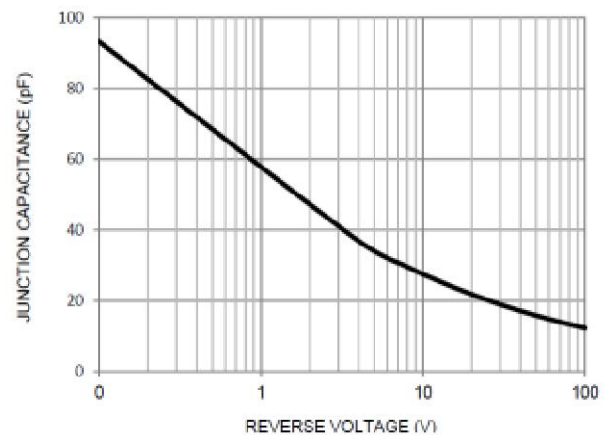


Figure 4. Typical Junction Capacitance

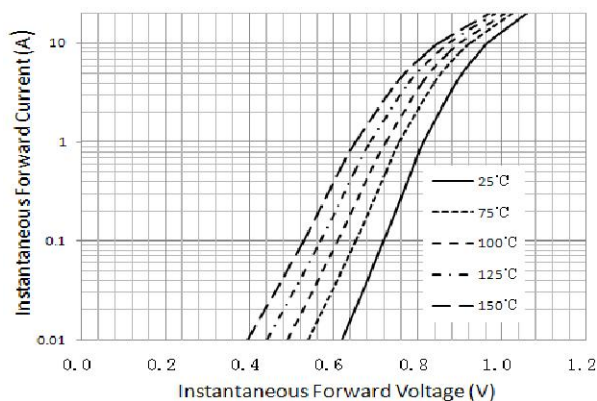


Figure 5. Typical Instantaneous Forward Characteristics

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## Package Outline Dimensions

