

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



DO-214AB (SMC)

Mechanical Data

- Case: JEDEC DO-214AB (SMC) molded plastic body over glass passivated chip
- 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 (TA = 25 °C unless otherwise noted)									
PARAMETER	SYMBOL	GN4A	GN4B	GN4D	GN4G	GN4J	GN4K	GN4M	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL (See Fig.1)	I _{F(AV)}	4.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150							A
Operating junction and storage temperature range	T _J , T _{STG}	- 55 to + 150							°C

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)										
PARAMETER	TEST CONDITIONS	SYMBOL	GN4A	GN4B	GN4D	GN4G	GN4J	GN4K	GN4M	UNIT
Maximum instantaneous forward voltage	4A	V _F	1.15							Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	10							μA
	TA=100°C		50							
Typical thermal resistance1)	Juntion to Ambient	R _{θJA}	13							°C/W
Typical junction capacitance	4.0 V, 1 MHz	C _J	60							pF

Note:1), The thermal resistance from junction to ambient, case or lead, mounted on P.C.B with 5×5mm copper pads



GN4A thru GN4M

Surface Mount Glass Passivated Standard Rectifier
Reverse Voltage 50~1000V Forward Current 4A

RATINGS AND CHARACTERISTICS CURVES

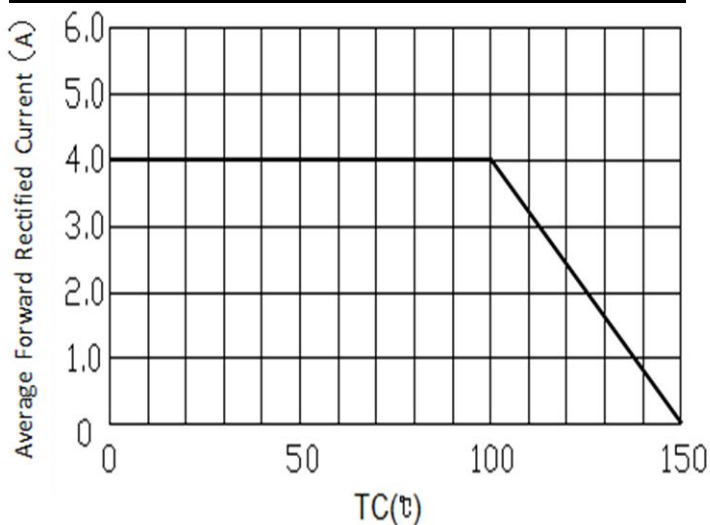


Figure 1. Forward Current Derating Curve

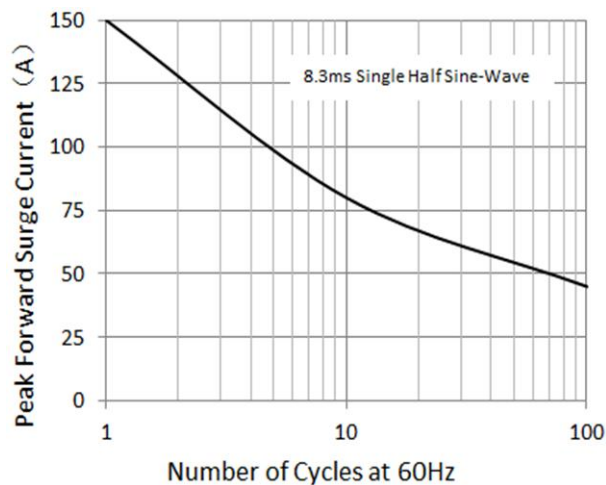


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

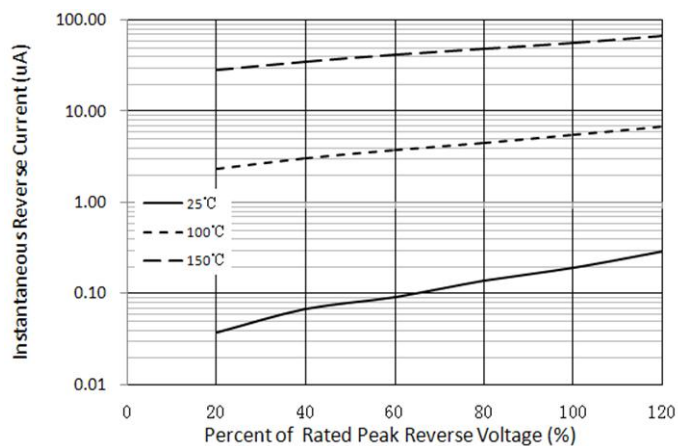


Figure 3. Typical Reverse Characteristics

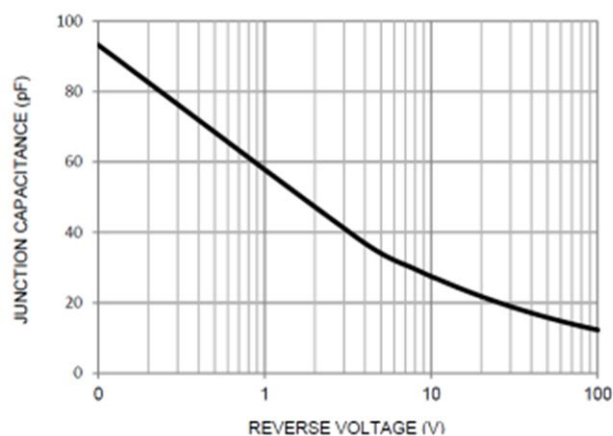


Figure 4. Typical Junction Capacitance

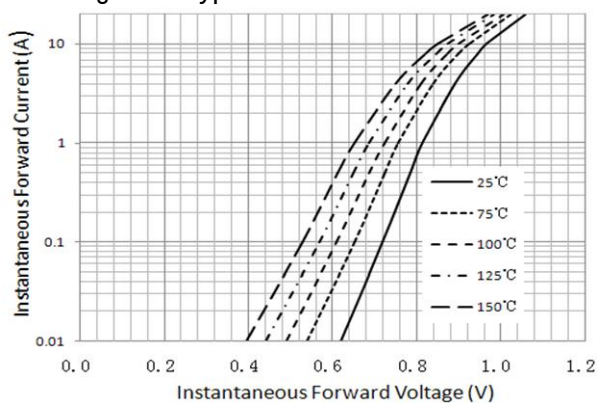


Figure 5. Typical Instantaneous Forward Characteristics



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PACKAGE OUTLINE DIMENSIONS

