

# GNTA - GNTM

PRV : 50 - 1000 Volts

Io : 2.5 Amperes

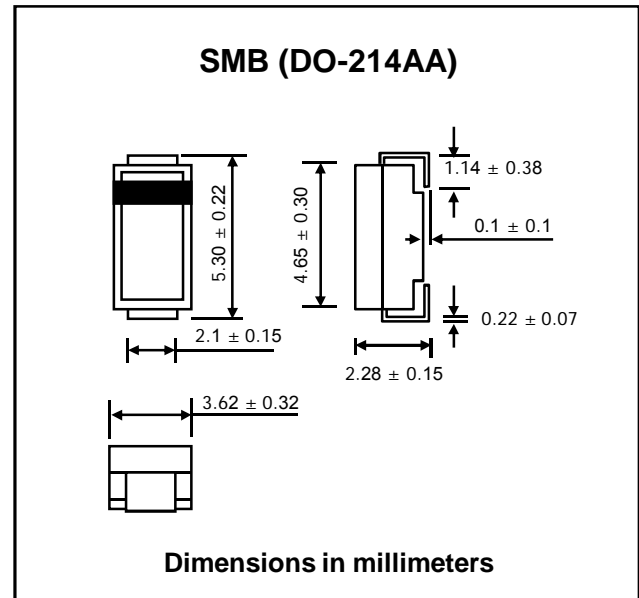
## FEATURES :

- \* Glass passivated chip
- \* High current capability
- \* High reliability
- \* Low leakage
- \* Low forward voltage drop
- \* Pb / RoHS Free

## MECHANICAL DATA :

- \* Case : SMB Molded plastic
- \* Epoxy : UL94V-0 rate flame retardant
- \* Lead : Lead Formed for Surface Mount
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.1079 gram

# GLASS PASSIVATED JUNCTION SILICON SURFACE MOUNT



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

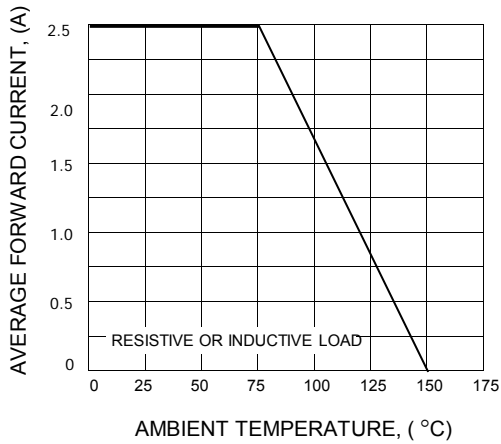
RATING	SYMBOL	GNTA	GNTB	GNTD	GNTG	GNTJ	GNTK	GNTM	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Current Ta = 75 °C	I <sub>F(AV)</sub>	2.5							A
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	150							A
Maximum Instantaneous Forward Voltage at I <sub>F</sub> = 2.5 A.	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current Ta = 25 °C at rated DC Blocking Voltage Ta = 100 °C	I <sub>R</sub>	5.0							µA
	I <sub>R(H)</sub>	50							µA
Typical Junction Capacitance (Note1)	C <sub>J</sub>	35							pF
Operating Junction Temperature Range	T <sub>J</sub>	- 65 to + 150							°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150							°C

**Note :**

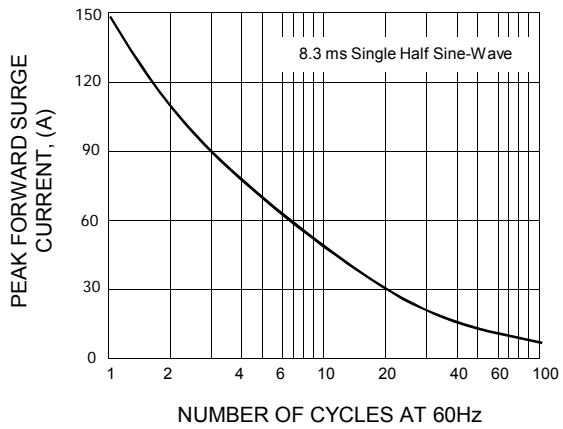
(1) Measured at 1.0 MHz and applied reverse voltage of 4.0 V.

**RATING AND CHARACTERISTIC CURVES ( GNTA - GNTM )**

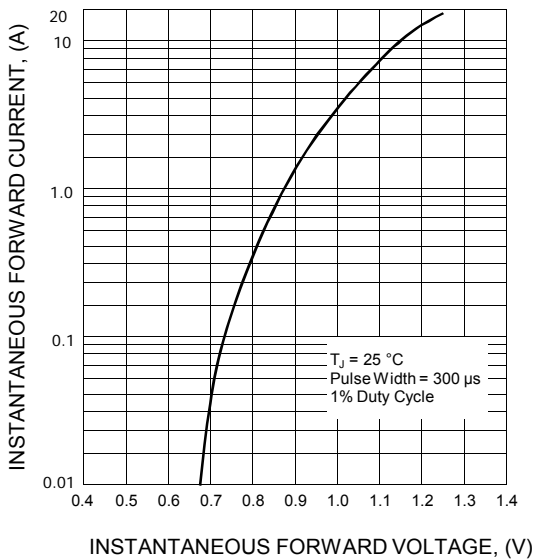
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

