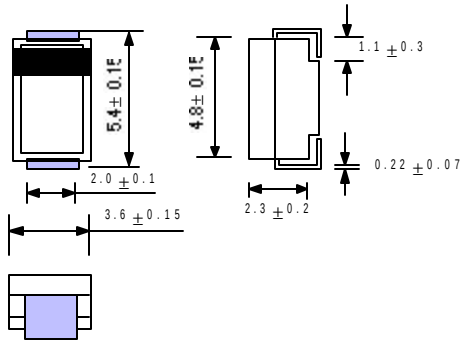
GN2A - GN2M

GLASS PASSIVATED JUNCTION SILICON SURFACE MOUNT

PRV : 50 - 1000 Volts
Io : 2.0 Amperes

SMB (DO-214AA)



Dimensions in millimeter

FEATURES :
* Glass passivated chip
* High current capability
* High reliability
* Low reverse current
* Low forward voltage drop

MECHANICAL DATA :
* Case : SMB Molded plastic
* Epoxy : UL94V-O rate flame retardant
* Lead : Lead Formed for Surface Mount
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	GN2A	GN2B	GN2D	GN2G	GN2J	GN2K	GN2M	UNIT
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 Current Ta = 50 °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							Amps.
Maximum Forward Voltage at I_F = 2.0 Amps.	V_F	1.0							Volts
Maximum DC Reverse Current Ta = 25 °C	I_R	5.0							µA
at rated DC Blocking Voltage Ta = 100 °C	$I_{R(H)}$	50							µA
Typical Junction Capacitance (Note1)	C_J	75							pF
Junction Temperature Range	T_J	- 65 to + 150							°C
Storage Temperature Range	T_{STG}	- 65 to + 150							°C

Notes :

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0V_{DC}

UPDATE : MAY 27, 1998

RATING AND CHARACTERISTIC CURVES (GN2A - GN2M)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

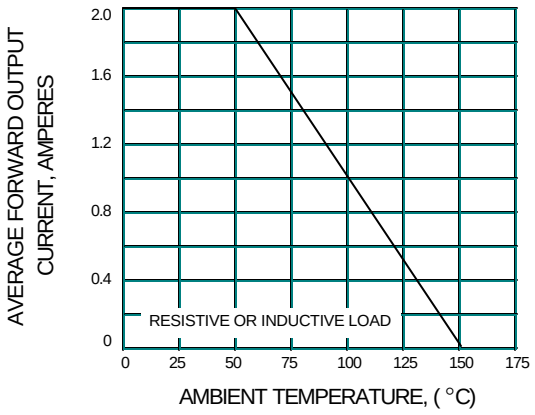


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

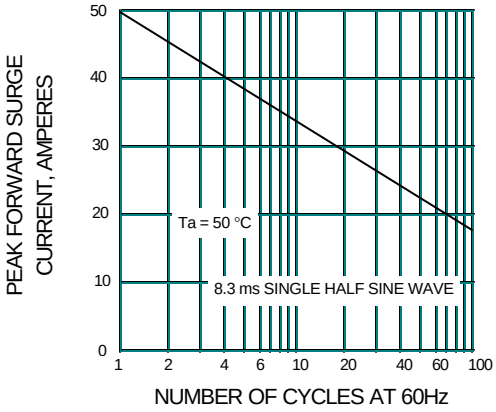


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

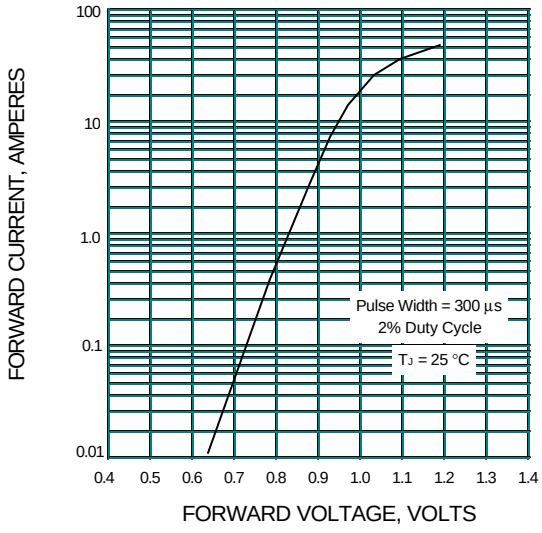


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

