

GS3M

3.0AMPS. GLASS PASSIVATED SURFACE MOUNT RECTIFIERS

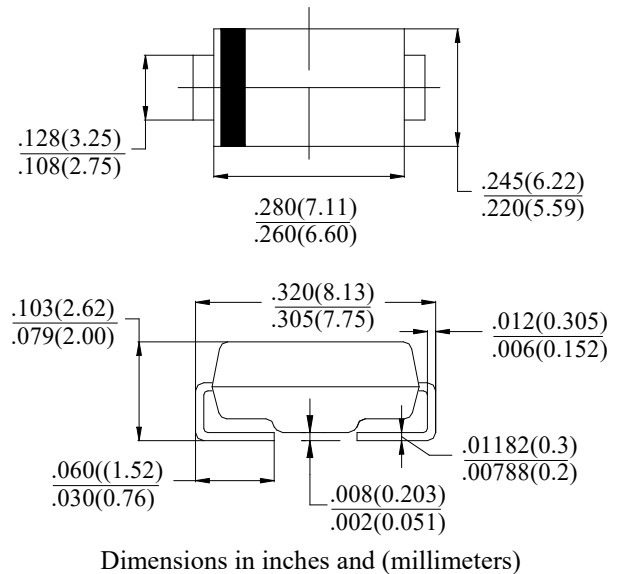
FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed:
260°C/10 seconds at terminals.
- . For surface mounted application.
- . Easy pick and place.

MECHANICAL DATA

- . Case: Molded plastic
- . Epoxy: UL94V-0 rate flame retardant (Halogen free)
- . Lead: MIL-STD- 202E, Method 208 guaranteed
- . Polarity:Color band denotes cathode end
- . Packaging:12mm tape per EIA STD RS-481
- . Weight: 0.23 grams

SMC (DO-214AB)



Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

MAXIMUM RATINGS (T_C=25°C unless otherwise noted)

Parameter	Symbol	GS3M			Units
		Min	Typ	Max	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000			V
Maximum RMS Voltage	V_{RMS}	700			V
Maximum DC blocking Voltage	V_{DC}	1000			V
Average Forward Rectified Current	$I_{F(AV)}$	3.0			A
Non-repetitive forward surge current, 8.3ms half sine-wave	I_{FSM}	120			A
Maximum Reverse Recovery Time (Note 1)	t_{rr}			5	us
Typical Junction Capacitance (Note 2)	C_J		20		pF
Instantaneous Forward voltage at 3.0A @T _J =25°C	V_F			1.15	V
reverse current @T _J =25°C	I_R			10.0	uA
at rated DC blocking voltage @T _J =125°C				250.0	
Typical Thermal Resistance (Note 3)	R_{thJL}			13	K/W
Operation Junction Temperature and Storage Temperature	T_J, T_{STG}	-55 to + 150			°C

Note:

1. Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
2. T_J=25°C, V_R = 4V_{DC}@1MHz
3. Measured on P.C.Board with 15.0mm*15.0mm*1.6mm Copper Pad Areas

RATING AND CHARACTERISTIC CURVES (GS3M)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

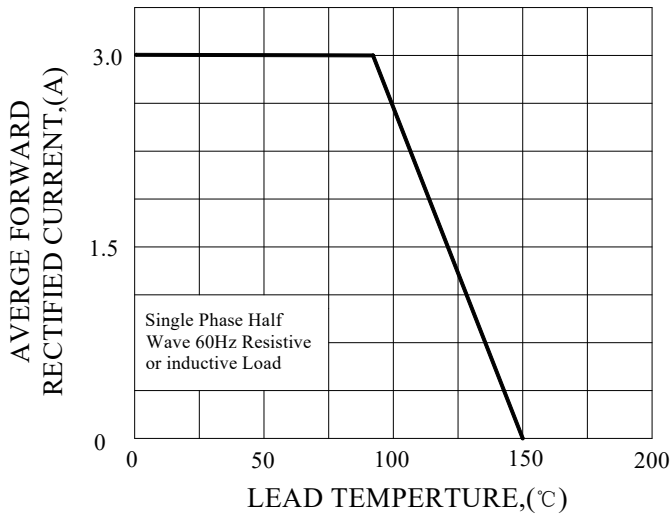


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

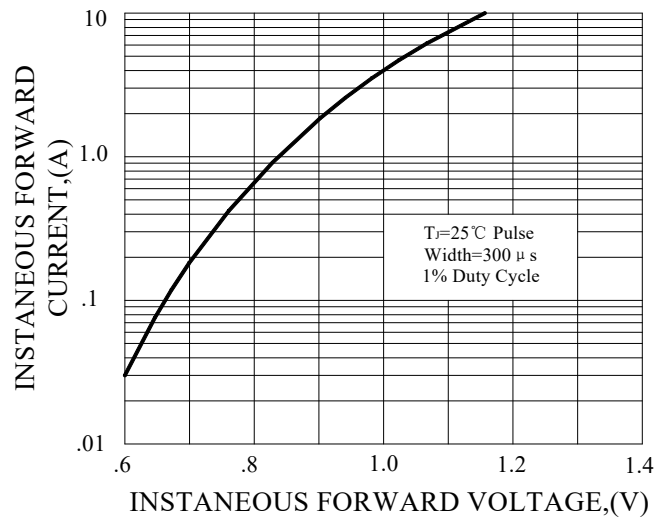


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

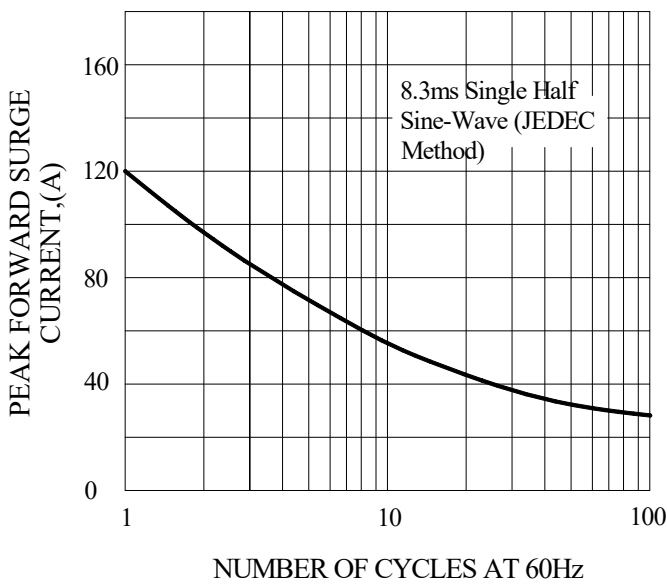
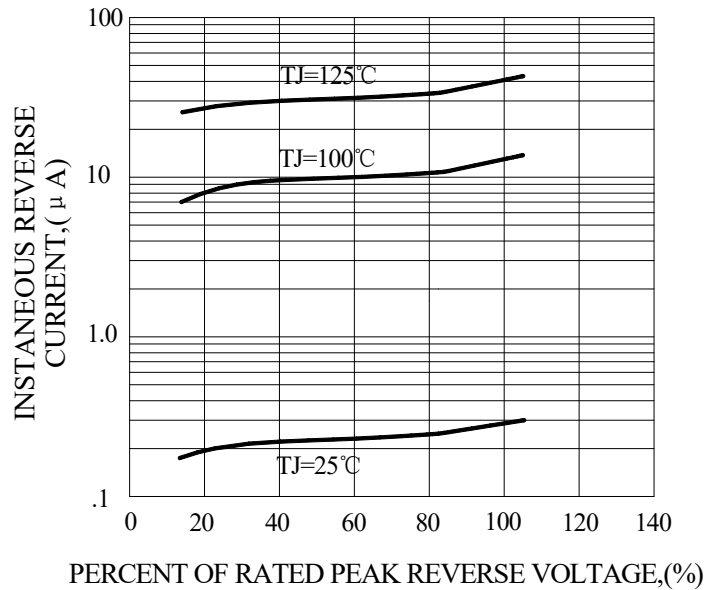
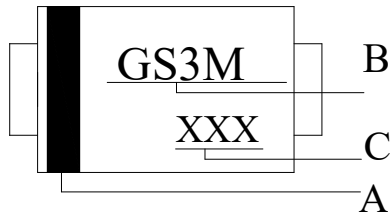


FIG.4-TYPICAL REVERSE CHARACTERISTICS



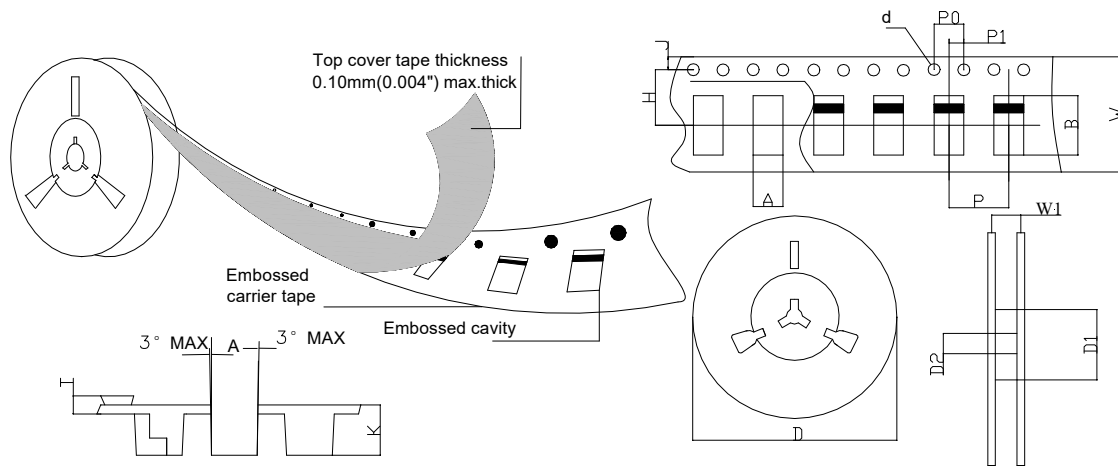
Marking and packaging illustration

1、Marking



SYMBOL	Explanation
A	Color Band Denotes Cathode
B	Product Name
C	Date code

3、Packaging



SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE
ITEM	SYM BOL	SMC (DO-214AB)	ITEM	SYM BOL	SMC (DO-214AB)
Carrier width	A	6.15(0.242)Max	Carrier depth	K	2.54(0.100)Typ
Carrier length	B	8.41(0.331)Max	Punch hole pitch	P	8.00(0.315)Typ
Sprocket hole	d	ø1.55(0.061)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ
Reel outer diameter	D	330.0(13.0)Typ	Embossment center	P1	2.00(0.079)Typ
Reel inner diameter	D1	74.0(2.913)Min	Overall tape thickness	T	0.25(0.010)Typ
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	16.0(0.430)Typ
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	16.5(0.650)Min
Punch hole position	H	7.50(0.295)Typ			

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