

Standard Surface Mounted Rectifiers

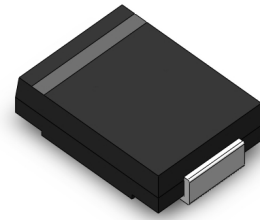
GS5AC~GS5MC
5.0A
50 to 1000V
DO-214AB(SMC)

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ Glass passivated Junction chip
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250°C/10 seconds at terminals

Mechanical Data

- ◆ Case : Molded plastic body
- ◆ Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ Polarity : Polarity symbol marking on body
- ◆ Mounting Position : Any


DO-214AB(SMC)

Maximum Ratings and Electrical Characteristics (T_A = 25°C unless otherwise noted)

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

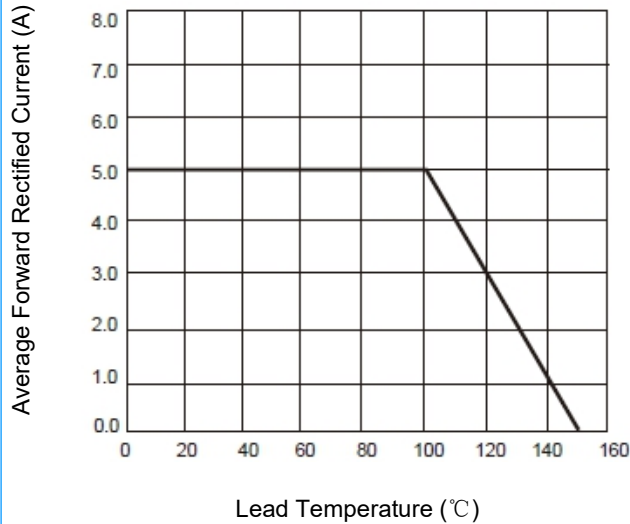
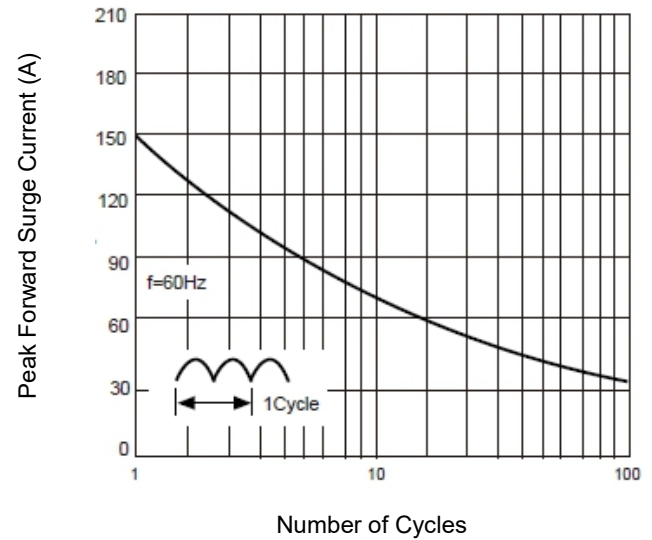
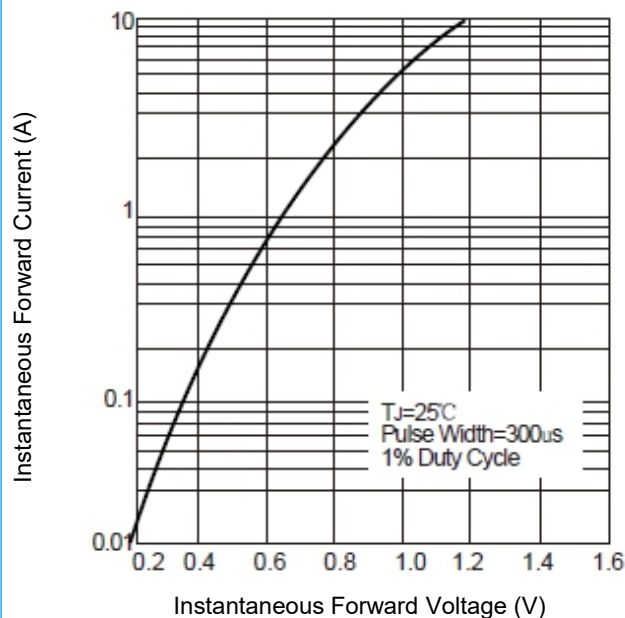
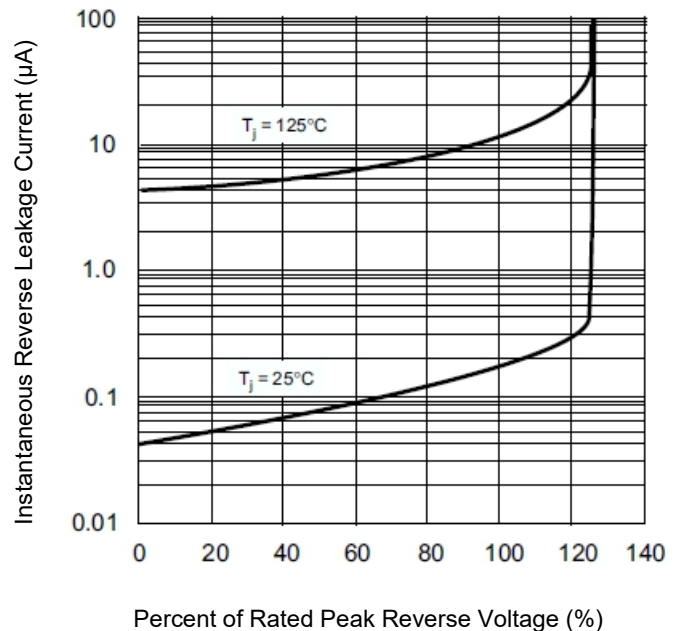
Items	Symbol	GS5AC	GS5BC	GS5DC	GS5GC	GS5JC	GS5KC	GS5MC	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I <sub(av)< sub=""></sub(av)<>	5.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150							A
Maximum instantaneous forward voltage at 5.0A	V _F	1.1							V
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	5							μA
	T _A =125°C								
Typical junction capacitance (Note 1)	C _J	50							pF
Typical thermal resistance	R _{qJA}	47							°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150							°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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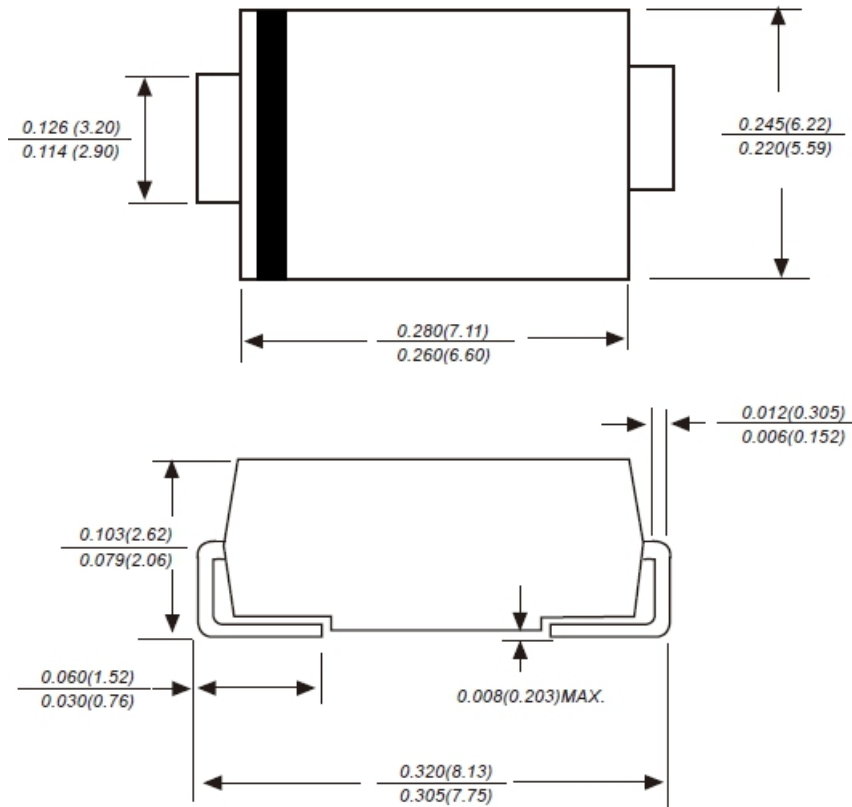
Ratings And Characteristic Curves

Fig1. Derating Curve Output Rectified Current

Fig2. Maximum Non-Repetitive Peak Forward Surge Current Perleg

Fig3. Typical Forward Voltage Characteristics

Fig4. Typical Reverse Leakage Characteristics


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DO-214AB(SMC) Package Outline (Unit: mm)



Packaging Information

Part Number	Component Package	Quantity
GS5AC~GS5MC	DO-214AB(SMC)	3000 PCS/REEL

Warning



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