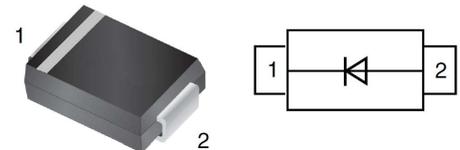


## Surface Mount General Rectifier in DO-214AB/SMC

### Features

- For surface mounted application
- Glass passivated junction chip
- Built-in strain relief, ideal for automated placement
- High forward surge current capability



### Mechanical Data

- **Case:** JEDEC DO-214AB(SMC)molded plastic  
Lead free; RoHS compliant
- **Molding Compound Flammability Rating:**  
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:  
260 °C/10 sec. at terminals

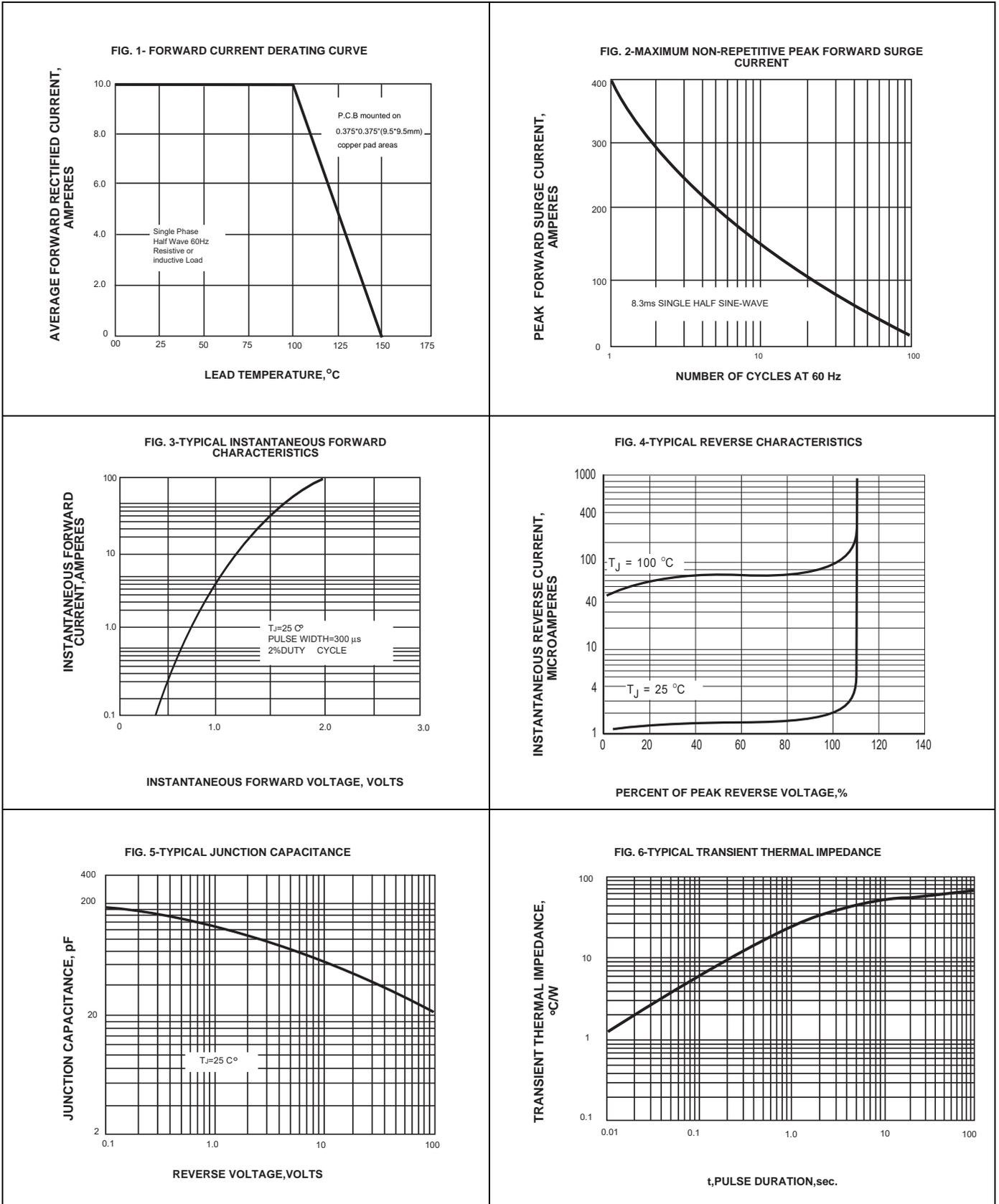
### Maximum Ratings And Electrical Characteristics

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

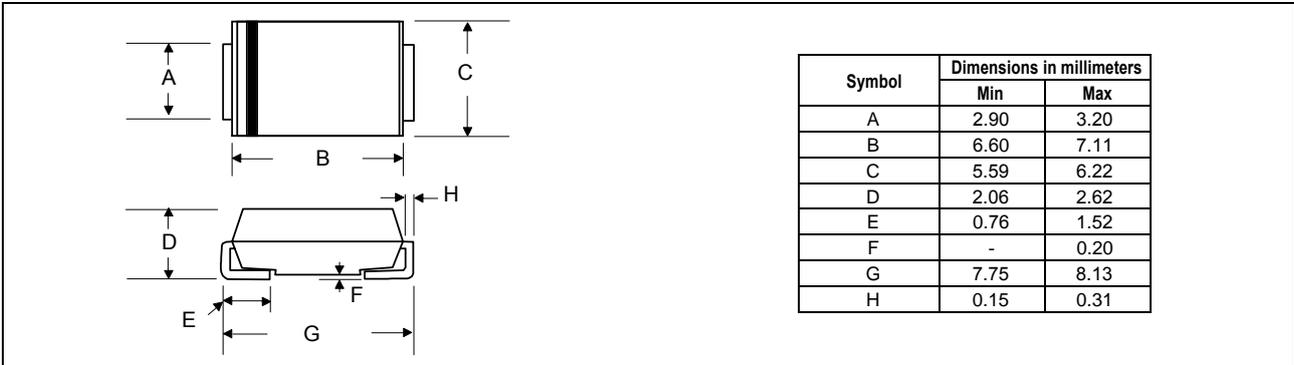
Parameter	Symbols	GS10A	GS10B	GS10D	GS10G	GS10J	GS10K	GS10M	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at $T_L=100C$ °	$I_{(AV)}$	10.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	400.0							A
Maximum instantaneous forward voltage at 1.0A	$V_F$	1.0							V
Maximum DC reverse current $T_A=25 C$ ° at rated DC blocking voltage $T_A=100 C$ °	$I_R$	10.0 100.0							$\mu A$
Typical junction capacitance (NOTE 1)	$C_J$	150.0							pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	10.0							°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.  
2. P.C.B. mounted with 0.375x0.375”(9.5x9.5mm) copper pad areas

**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



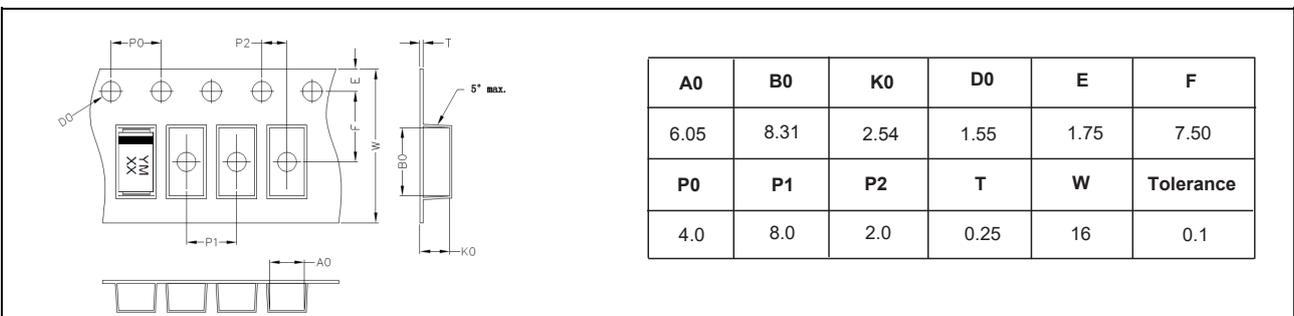
## Package Dimensions



## PAD Dimensions



## Packing Information



## Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
GS10A thur GS10M	DO-214AB/SMC	Tape and reel	3000pcs / reel	EIA STD RS-481

## Revision history

Date	Revision	Changes
23-May-2016	1.0	Initial release
21-Dec.-2019	2.0	Update

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