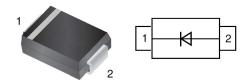


# Surface Mount General Rectifier in DO-214AB/SMC

#### **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:

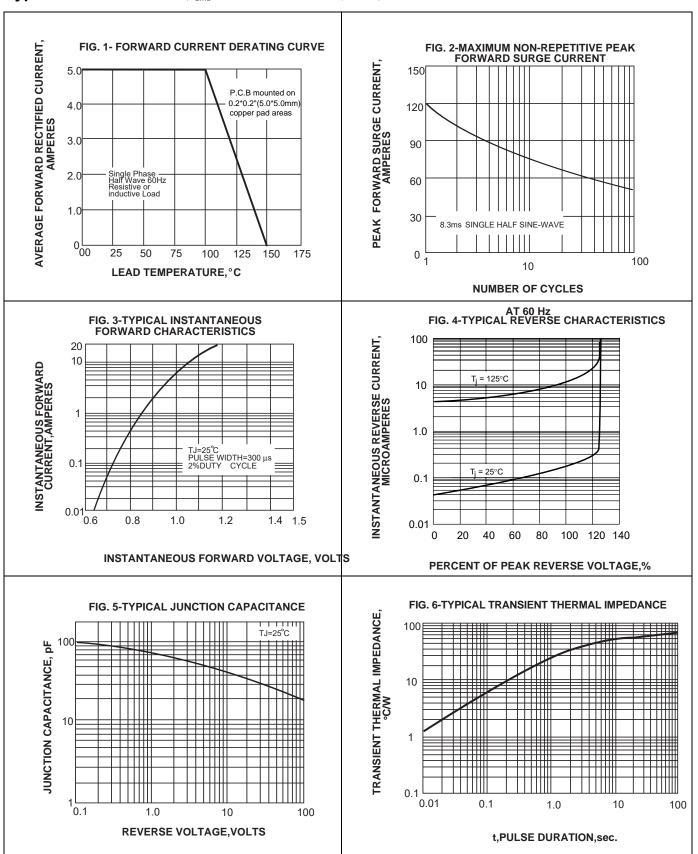
260 °C/10 sec. at terminals

Maximum Ratings And Electrical Characteristic: Ratings at 25° C ambient temperature unless otherwise specifie Single phase half-wave 60Hz, resistive or inductive load, for capa	d.	urrent d	erate by	20%.					
Parameter	Symbols	GS5A	GS5B	GS5D	GS5G	GS5J	GS5K	GS5M	Units
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T∟=100°C	l(AV)			•	5.0			•	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM				120.0				Α
Maximum instantaneous forward voltage at 1.0A	VF				1.0				V
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR				5.0 100.0				μА
Typical junction capacitance (NOTE 1)	Cì				50.0				pF
Typical thermal resistance (NOTE 2)		35.0				°C/W			
Operating junction and storage temperature range		-55 to +150				°C			

**Note:**1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

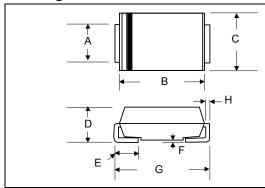


## Typical Characteristics (T<sub>amb</sub> = 25 °C unless otherwise specified)



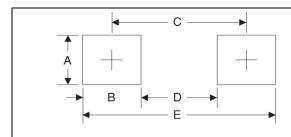


# **Package Dimensions**



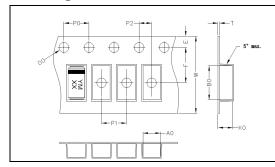
Oh a l	Dimensions in millimeters			
Symbol	Min	Max		
Α	2.90	3.20		
В	6.60	7.11		
С	5.59	6.22		
D	2.06	2.62		
E	0.76	1.52		
F	-	0.20		
G	7.75	8.13		
Н	0.15	0.31		

### **PAD Dimensions**



Symbol	Unit (mm)	Unit (inch)
Α	3.30	0.130
В	2.50	0.098
С	6.80	0.268
D	4.40	0.173
Е	9.40	0.370

## **Packing Information**



Α0	В0	K0	D0	E	F
6.05	8.31	2.54	1.55	1.75	7.50
P0	P1	P2	Т	w	Tolerance
4.0	8.0	2.0	0.25	16	0.1

# **Ordering information**

Order code	Package	Packaging option	Base quantity	Packaging specification
GS5A thur GS5M	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-Dec2019	2.0	Update

Rev. 2.0 www.crea-tek.com





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