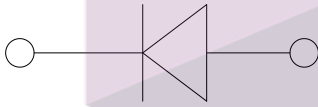
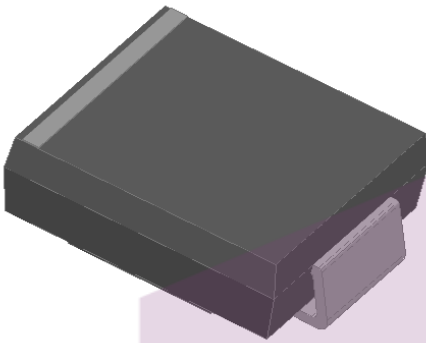


## Surface Mount General Purpose Rectifier



### Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Solder dip 260 °C max. 10 s, per JESD 22-B106

### Mechanical Data

- **Package:** DO-214AB (SMC)  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes cathode end

### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GS3A	GS3B	GS3D	GS3G	GS3J	GS3K	GS3M
Device marking code			GS3A	GS3B	GS3D	GS3G	GS3J	GS3K	GS3M
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (FIG.1)	I <sub>o</sub>	A	3.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	I <sub>FSM</sub>	A	100						
Storage Temperature	T <sub>stg</sub>	°C	-55 ~+150						
Junction Temperature	T <sub>j</sub>	°C	-55 ~+150						

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GS3A	GS3B	GS3D	GS3G	GS3J	GS3K	GS3M
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	I <sub>FM</sub> =3.0A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>R</sub>	μA	Ta=25°C				5			
			Ta=100°C				50			
Typical junction capacitance	C <sub>j</sub>	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.				25			

### ■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GS3A	GS3B	GS3D	GS3G	GS3J	GS3K	GS3M	
Thermal Resistance	Junction to ambient	R <sub>θJ-A</sub>					48 <sup>(1)</sup>			
	Junction to lead	R <sub>θJ-L</sub>					13 <sup>(1)</sup>			



# GS3A THRU GS3M

Note(1)

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

## Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GS3A~GS3M	F1	Approximate 0.248	3000	6000	42000	13" reel

## Characteristics(Typical)

FIG.1: Io-TL Curve

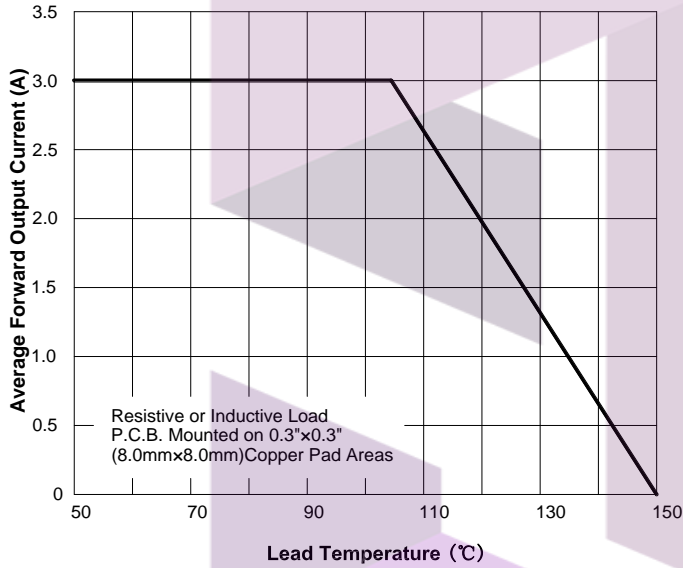


FIG.2: Forward Surge Current Capacity

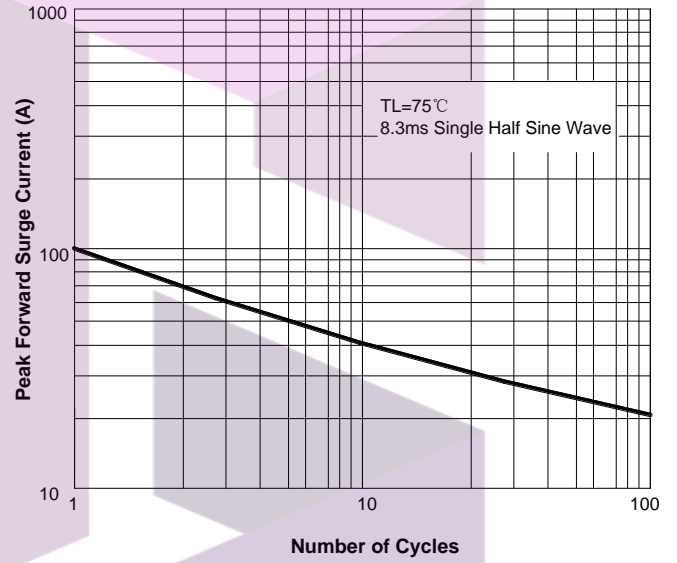


FIG.3: Forward Voltage

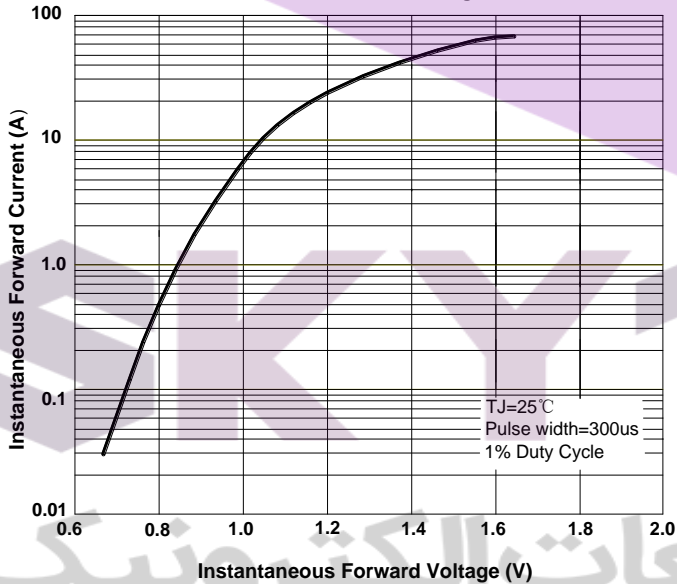
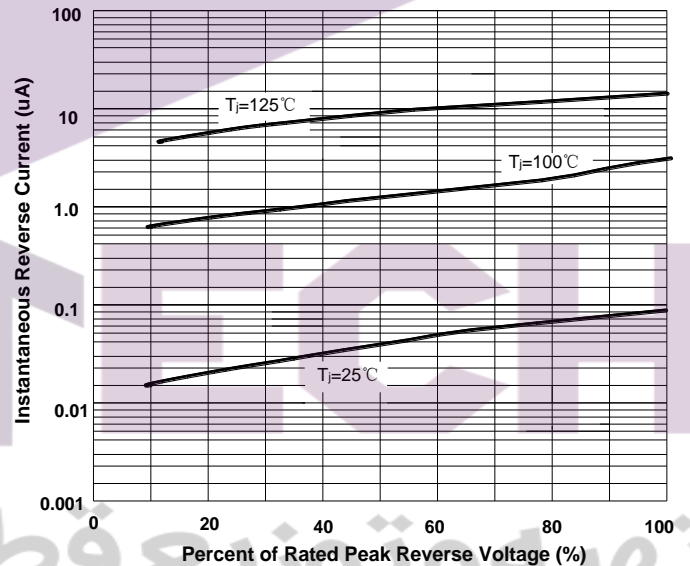
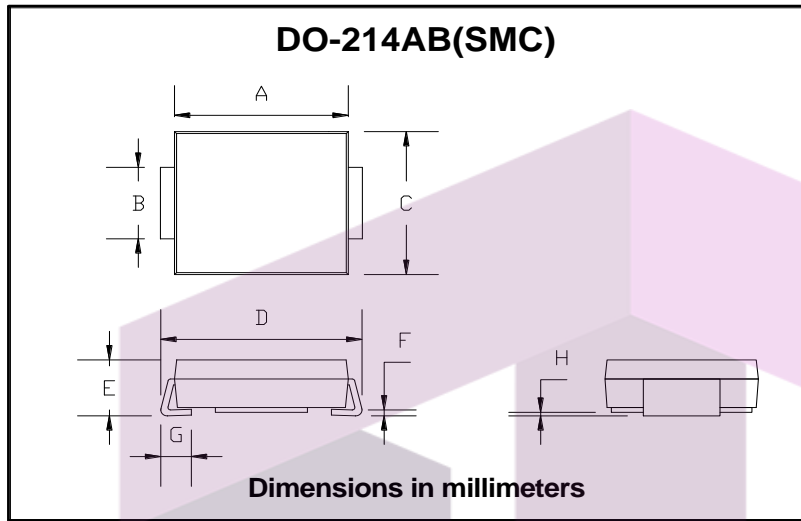


FIG.4: Typical Reverse Characteristics

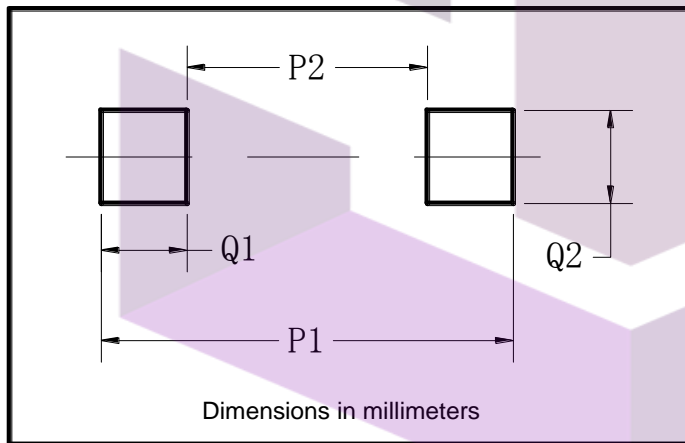


## ■ Outline Dimensions



DO-214AB (SMC)		
Dim	Min	Max
A	6.60	7.11
B	2.85	3.27
C	5.59	6.22
D	7.75	8.13
E	1.99	2.61
F	0.15	0.31
G	0.76	1.52
H	0.10	0.20

## ■ Suggested pad layout



Dim	Typ
P1	9.9
P2	3.84
Q1	3.03
Q2	3.82

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## GS3A THRU GS3M

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