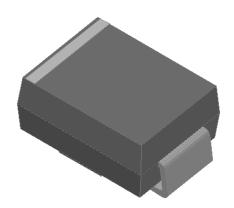
Surface Mount General Purpose Rectifier





Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer and telecommunication.

Mechanical Data

- Package: DO-214AA (SMB)
 Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

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

				1 /						
PARAMETER	SYMBOL	UNIT	GS1AB	GS1BB	GS1DB	GS1GB	GS1JB	GS1KB	GS1MB	
Device marking code			GS1AB	GS1BB	GS1DB	GS1GB	GS1JB	GS1KB	GS1MB	
Repetitive peak reverse voltage	VRRM	٧	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave, resistance load, TL (Fig.1)	Ю	Α	1.0							
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Ta=25°C	IFSM	Α	30							
Storage temperature	T _{stg}	°C	-55~+150							
Junction temperature	Tj	°C	-55~+150							

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GS1AB	GS1BB	GS1DB	GS1GB	GS1JB	GS1KB	GS1MB
Maximum instantaneous forward voltage drop per diode	VF	>	IFM=1.0A	IFM=1.0A 1.15						
Maximum DC reverse current	loom		T _a =25°C	5.0						
at rated DC blocking voltage per diode @ VRM=VRRM	IRRM	μΑ	T _a =125°C	100						

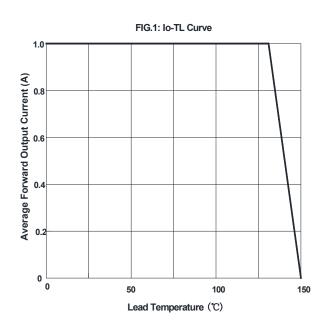
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

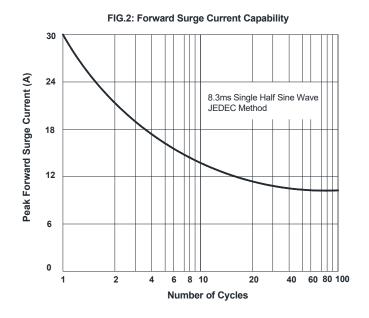
PARAMETER	SYMBOL	UNIT	GS1AB	GS1BB	GS1DB	GS1GB	GS1JB	GS1KB	GS1MB	
Typical Thormal registeres	RθJ-A ⁽¹⁾	°CAM	60 ¹⁾							
Typical Thermal resistance	RθJ-L ⁽¹⁾	°C/W	15 ¹⁾							

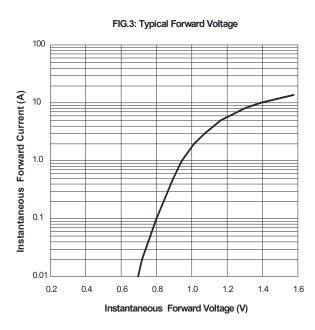
Note:

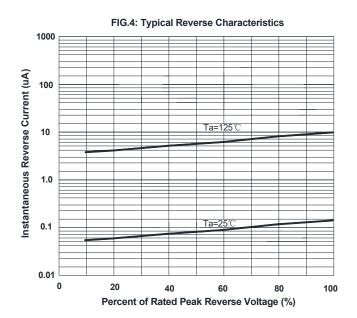
(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

■ Characteristics (Typical)







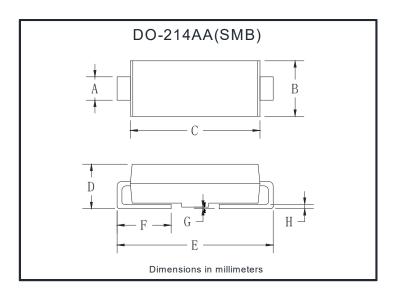




■Ordering Information (Example)

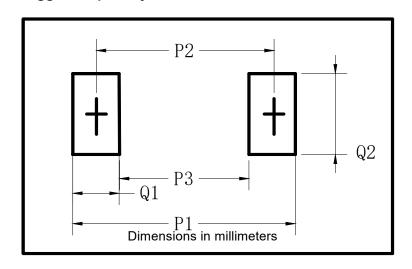
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GS1AB-GS1MB	F1	Approximate 0.096	3000	6000	48000	13" reel
GS1AB-GS1MB	F2	Approximate 0.096	750	3000	24000	7" reel
GS1AB-GS1MB	F3	Approximate 0.096	500	2000	16000	7" reel

■ Outline Dimensions



DO-214AA(SMB)					
Dim	Min	Max			
Α	1.85	2.15			
В	3.30	3.94			
С	4.25	4.75			
D	1.99	2.61			
Е	5.21	5.59			
F	0.90	1.41			
G	0.10	0.20			
Н	0.15	0.31			

■ Suggested pad layout



DO-214AA(SMB)				
Dim	Millimeters			
P1	6.8			
P2	4.3			
P3	1.8			
Q1	2.5			
Q2	2.3			



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