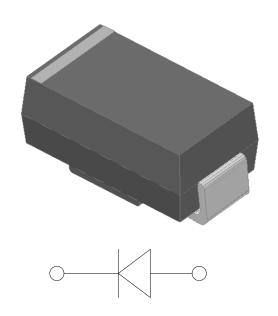




Surface Mount General Purpose Rectifier



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-214AC (SMA)
 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)

= maximum radings (+a == = = ============================									
PARAMETER	SYMBOL	UNIT	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M
Device marking code			GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M
Repetitive peak reverse voltage	VRRM	V	50 100 200 400 600 800		800	1000			
Average rectified output current @60Hz sine wave, Resistance load, Ta (FIG.1)	Ю	А	1.0						
Surge(non-repetitive)forward current @ 60Hz Half-sine wave,1 cycle, Ta=25°C	IFSM	Α	30						
Storage temperature	Tstg	${\mathbb C}$	-55~+150						
Junction temperature	Tj	$^{\circ}$	-55 ~ +150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM		T _a =25℃				10			
@ VRM=VRRM	IKKIVI	μA	T _a =100°C	50						

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

PARAMETER	SYMBOL	UNIT	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M
Thermal Resistance	RθJ-A(1)	°C/W	95 ¹⁾						
THEITIAI NESISIANGE	R ₀ J-L(1)	°CM	22 ¹⁾						

Note

⁽¹⁾ Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

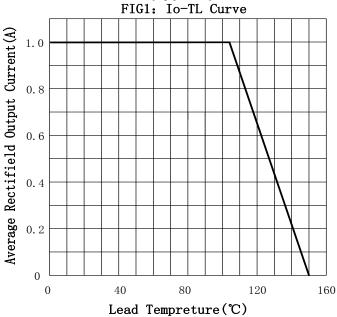


GS1A THRU GS1M

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GS1A- GS1M	F1	Approximate 0.059	5000	10000	80000	13" reel
GS1A- GS1M	F2	Approximate 0.059	7500	15000	120000	13" reel
GS1A- GS1M	F3	Approximate 0.059	7500	15000	60000	13" reel
GS1A- GS1M	F4	Approximate 0.059	1800	7200	57600	7" reel
GS1A- GS1M	F5	Approximate 0.059	2000	8000	64000	7" reel
GS1A- GS1M	F6	Approximate 0.059	5000	10000	100000	13" reel





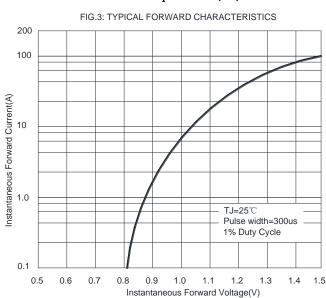


FIG2: Surge Forward Current Capability

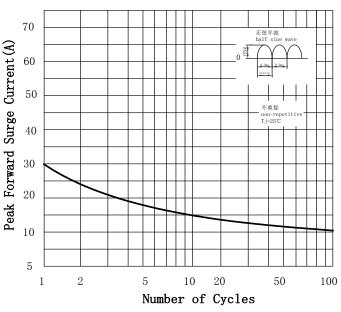


FIG.4: TYPICAL REVERSE CHARACTERISTICS

1000

(Y) 100

Tj=150°C

Tj=100°C

Tj=25°C

0.1

0.01

20

40

60

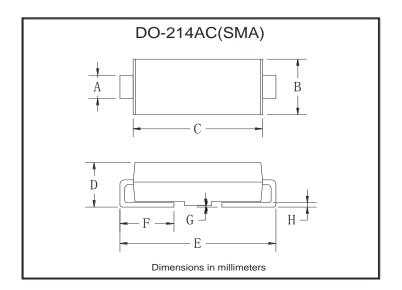
80

100

Percent of Rated Peak Reverse Voltage(%)

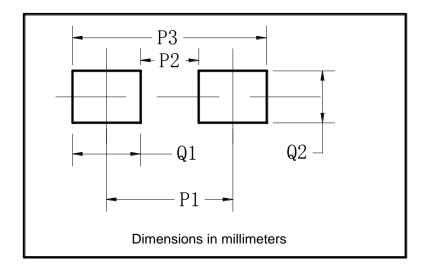


■ Outline Dimensions



DO-214AC(SMA)					
Dim	Min	Max			
Α	1.25	1.58			
В	2.40	2.83			
С	4.25	4.75			
D	1.90	2.30			
Е	4.93	5.28			
F	0.76	1.41			
G	0.08	0.20			
Н	0.15	0.31			

■ Suggested Pad Layout



DO-214AC(SMA)				
Dim	Millimeters			
P1	4.00			
P2	1.50			
P3	6.50			
Q1	2.50			
02	1.70			



GS1A THRU GS1M

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