

S1A THRU A1M

Surface Mount General Purpose Rectifier

Essential information; basic information

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

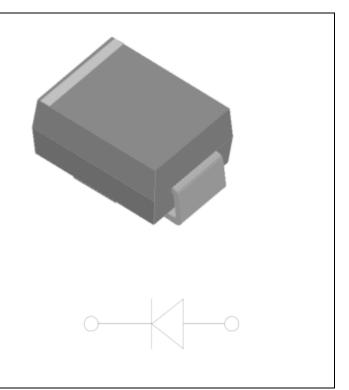
For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

• Package: SMA (DO-214AC)

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

- Terminals: Tin plated leads, solderable per
- J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end



Maximum Ratings (Ta=25 $^{\circ}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	S1A	S1B	S1D	S1G	S1J	S1K	S1M
Maximum Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC Blocking Voltage	VDC	V	50	100	200	400	600	800	1000
AverageRectifiedOutputCurrent@60Hz sine wave, resistance load, TL (Fig.1)	ю	А	1.0						
ForwardSurgeCurrent(Non-repetitive) @60Hz Half-sine wave,1 cycle,Tj=25 $^\circ\!\!\mathrm{C}$	IFSM	А	25						
Storage temperature	Tstg	°C	-55 ~ +150						
Junction temperature	Tj	°C	-55 ~ +150						
Maximum instantaneous forward voltage drop per diode	VF (IFM=1.0A)	V	1.1						
Maximum DC reverse current at	IR (Tj =25℃)		5						
rated DC blocking voltage per diode	μA IR (Tj =125°C)		100						

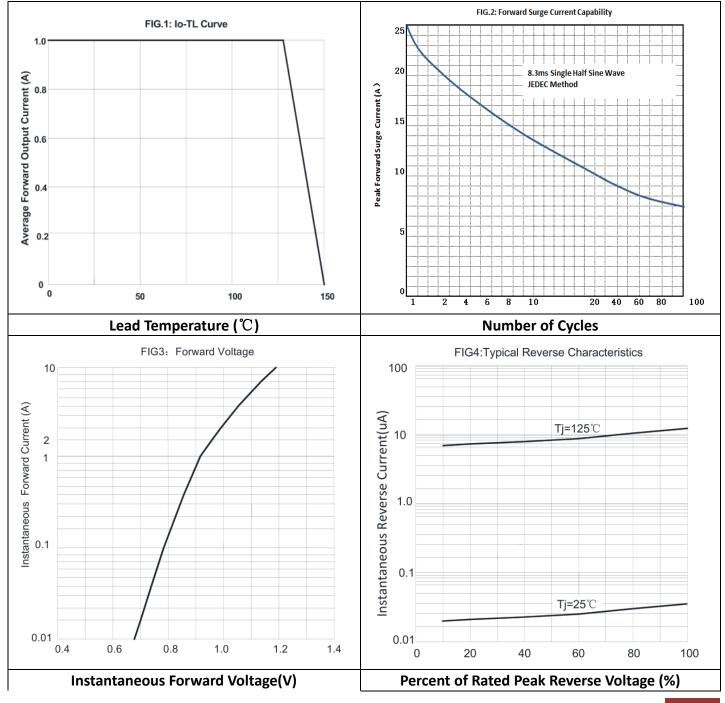
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D Thermal Characteristics (Ta=25 $^{\circ}$ C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	M1	M2	M3	M4	M5	M6	M7
	RθJ-A ⁽¹⁾	°C/w	70						
Typical Thermal resistance	RθJ-L ⁽¹⁾		25						
	RθJ-C ⁽¹⁾		20						

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

Characteristics (Typical)

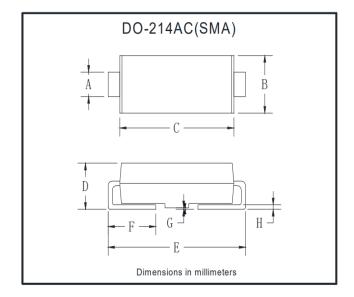


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type specification	manner of packin	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
		2000	10000	100000	7" reel
M1-M7 (SMA)	T/B	5000	10000	100000	11" reel
		5000	10000	100000	13" reel

Ordering Information (Example)

Outline Dimensions



DO-214AC(SMA)						
Dim	Min	Max				
А	1.25	1.58				
В	2.40	2.83				
С	4.06	4.75				
D	1.90	2.30				
E	4.93	5.28				
F	0.76	1.41				
G	0.08	0.20				
Н	0.15	0.31				

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