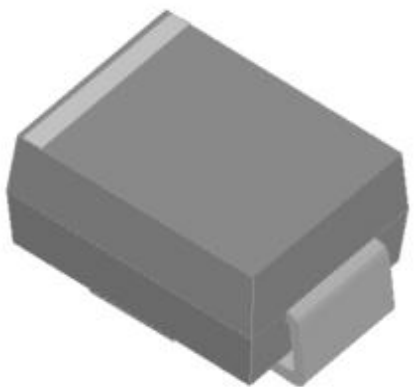



S2A THRU S2M

Surface Mount General Purpose Rectifier

● Essential information; basic information

<p>Features</p> <ul style="list-style-type: none"> ● 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 <p>Typical Applications</p> <p>For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.</p> <p>Mechanical Data</p> <ul style="list-style-type: none"> ● Package: SMA (DO-214AC) <p>Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant</p> <ul style="list-style-type: none"> ● Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102 ● Polarity: Cathode line denotes the cathode end 	 
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● Maximum Ratings (Ta=25°C Unless otherwise specified)

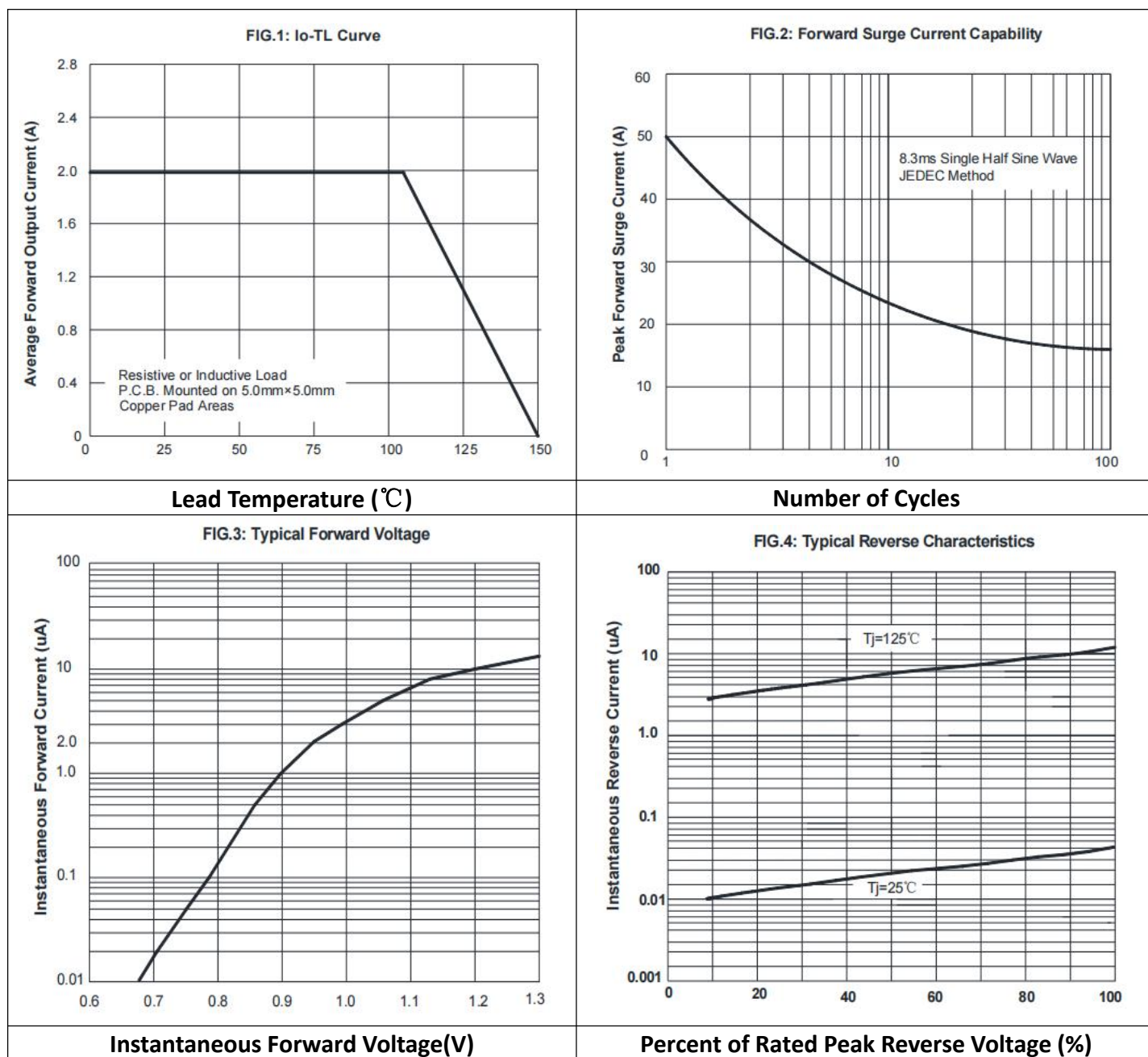
PARAMETER	SYMBOL	UNIT	S2A	S2B	S2D	S2G	S2J	S2K	S2M
Maximum Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC Blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average Rectified Output Current @ 60Hz sine wave, resistance load, TL (Fig.1)	IO	A	2.0						
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, Tj=25°C	IFSM	A	50						
Storage temperature	Tstg	°C	-55 ~ +150						
Junction temperature	Tj	°C	-55 ~ +150						
Maximum instantaneous forward voltage drop per diode	VF (IFM=2.0A)	V	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	IR (Tj = 25°C)	μA	5						
	IR (Tj = 125°C)		100						

● Thermal Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	S2A	S2B	S2D	S2G	S2J	S2K	S2M
Typical Thermal resistance	R θ J-A ⁽¹⁾	℃/W	65						
	R θ J-L ⁽¹⁾		20						
	R θ J-C ⁽¹⁾		18						

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

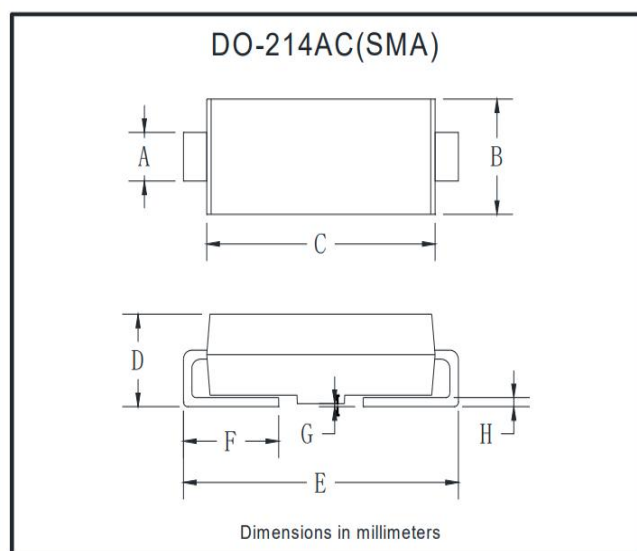
● Characteristics (Typical)



● Ordering Information (Example)

type specification	manner of packin	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S2A-S2M (SMA)	T/B	2000	10000	100000	7" reel
		5000	10000	100000	11" reel
		5000	10000	100000	13" reel

● Outline Dimensions



DO-214AC(SMA)		
Dim	Min	Max
A	1.25	1.58
B	2.40	2.83
C	4.06	4.75
D	1.90	2.30
E	4.93	5.28
F	0.76	1.41
G	0.08	0.20
H	0.15	0.31

● Disclaimer

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