

SS12 (SS12A) THRU SS120 (SS120A)

Surface Mount Schottky Rectifier

Essential information; basic information

Features

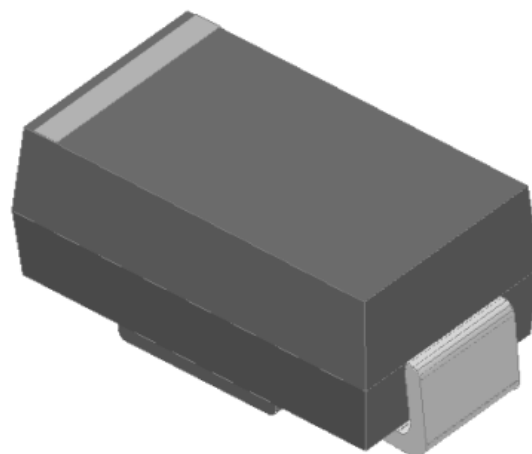
- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

Mechanical Data

- Package: DO-214AC (SMA)
- 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



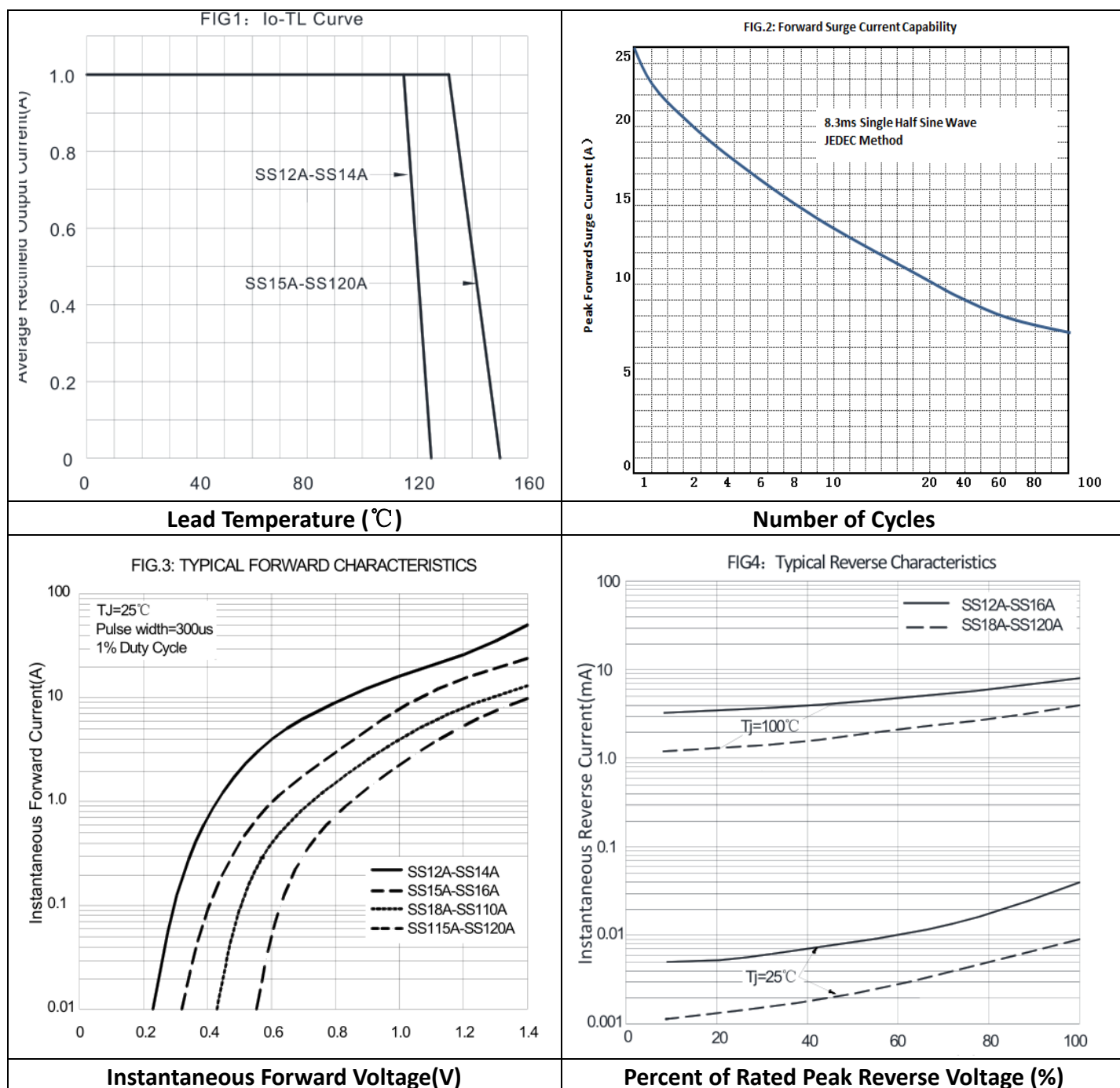
Maximum Ratings (Ta=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS12	SS14	SS16	SS18	SS110	SS115	SS120
Alternate Name			SS12A	SS14A	SS16A	SS18A	SS110A	SS115A	SS120A
Maximum Repetitive peak reverse voltage	VRRM	V	20	40	60	80	100	150	200
Average rectified output current@60Hz sine wave, resistance load, TL (Fig.1)	IO	A	1.0						
Forward Surge Current (Non-repetitive)@60Hz Half-sine wave,1 cycle, Tj=25℃	IFSM	A	25						
Storage temperature	Tstg	℃	-55 ~ +150						
Junction temperature	Tj	℃	-55 ~ +125		-55 ~ +150				
Maximum instantaneous forward voltage drop per diode	VF (IFM=1.0A)	V	0.6		0.7	0.85		0.95	
Maximum DC reverse current at rated DC blocking voltage per diode @VRM=VRRM	IR (Tj =25℃)	mA	0.5			0.1			
	IR (Tj =100℃)		10			5			

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Alternate Name			SS12A	SS14A	SS16A	SS18A	SS110A	SS115A	SS120A
Typical Thermal resistance	R θ J-A	$^{\circ}\text{C}/\text{W}$	65 ¹⁾						
	R θ J-L		20 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

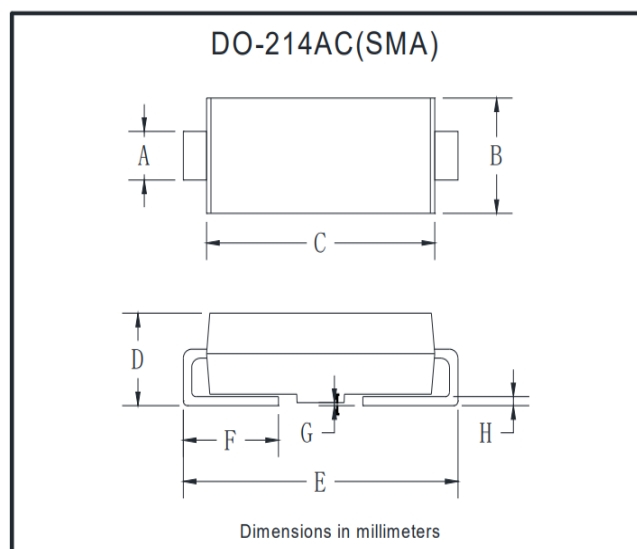
Characteristics (Typical)



Ordering Information (Example)

type specification	manner of packin	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS12-SS120 (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

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