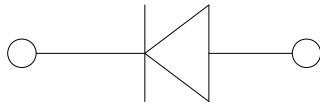
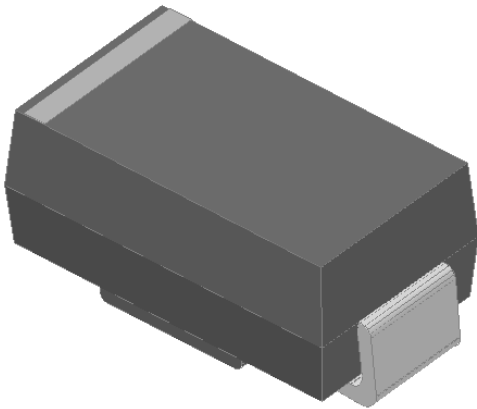


Surface Mount Schottky Rectifier



Features

- N+ IMP, Passivation Dep
- 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, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

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

PARAMETER	SYMBOL	UNIT	SS									
			32AH	33AH	34AH	35AH	36AH	38AH	310AH	315AH	320AH	
Device marking code			SS									
			32AH	33AH	34AH	35AH	36AH	38AH	310AH	315AH	320AH	
Repetitive peak reverse voltage	V _{RRM}	V	20	30	40	50	60	80	100	150	200	
Average rectified output current @60Hz sine wave, resistance load, Tc (FIG.1)	I _o	A	3.0									
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Tj=25℃	I _{FSM}	A	70									
Surge(non-repetitive)forward current @1ms, square wave, 1 time, Tj =25℃			140									
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	I²t	A²S	20									
Typical junction capacitance@ Measured at 1MHZ and Applied Reverse Voltage of 4.0 V D.C.	Cj	pF	150			128		100		58		
Storage temperature	T _{stg}	℃	-55 ~+175									
Junction temperature	Tj	℃	-55~+150				-55 ~+175					



SS32AH THRU SS320AH

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

PARAMETER		SYMBOL	UNIT	TEST CONDITIONS	MIN	TYP	MAX
Instantaneous forward voltage drop per diode	SS32AH~SS34AH	V _F	V	I _{FM} =3.0A	-	0.46	0.50
	SS35AH~SS36AH				-	0.59	0.70
	SS38AH~SS310AH				-	0.75	0.85
	SS315H~SS320AH				-	0.81	0.90
DC reverse current at rated DC blocking voltage per diode @ V _{RM} =V _{RRM}	SS32AH~SS34AH	I _{RRM}	mA	T _j =25℃	-	-	0.50
				T _j =125℃	-	-	5.0
	SS35AH~SS36AH			T _j =25℃	-	-	0.50
				T _j =125℃	-	-	5.0
	SS38AH~SS310AH			T _j =25℃	-	-	0.10
				T _j =125℃	-	-	5.0
	SS315H~SS320AH			T _j =25℃	-	-	0.10
				T _j =125℃	-	-	5.0

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS

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

PARAMETER	SYMBOL	UNIT	SS								
			32AH	33AH	34AH	35AH	36AH	38AH	310AH	315AH	320AH
Thermal resistance	R _{θJ-A}	°C/W	55 ¹⁾								
	R _{θJ-L}		17 ¹⁾								
	R _{θJ-C}		18 ¹⁾								

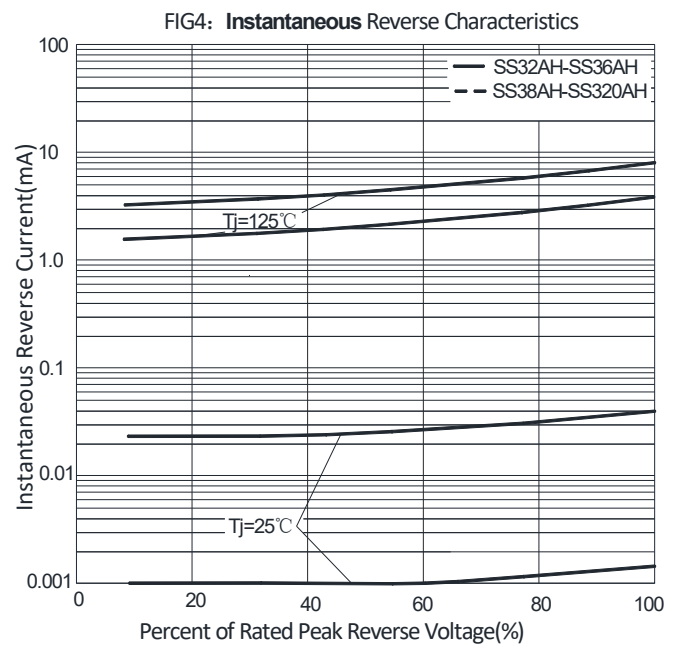
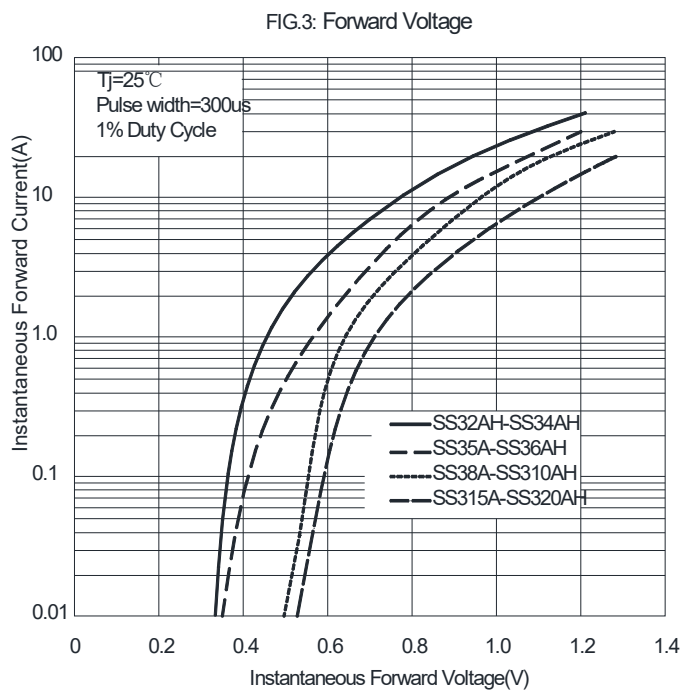
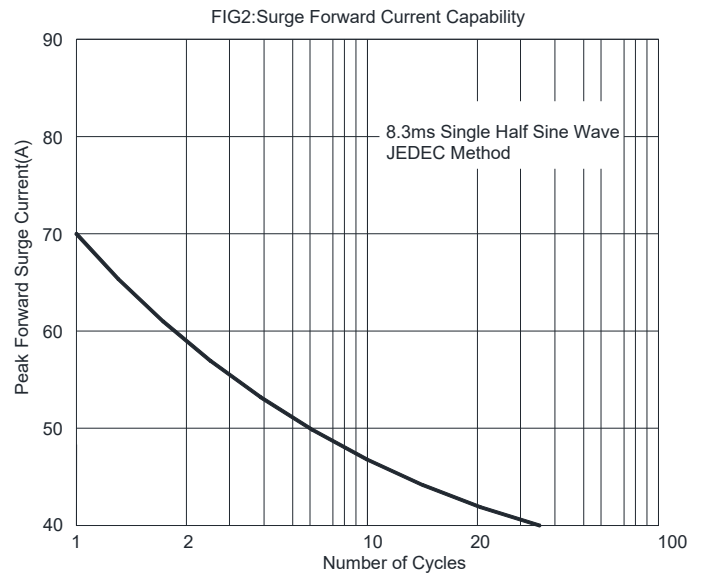
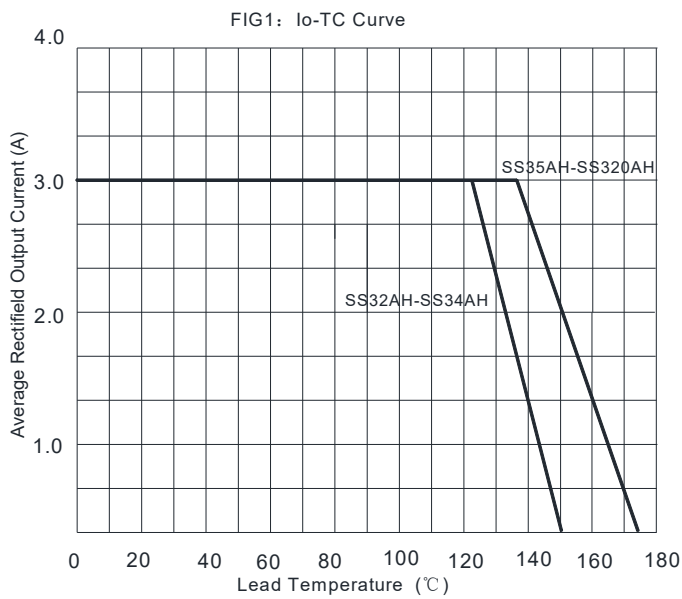
Note

(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



SS32AH THRU SS320AH

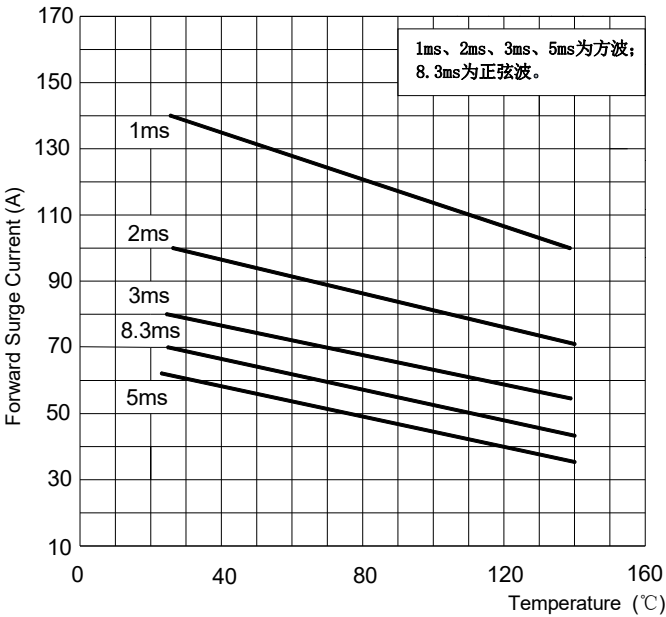
■ Characteristics (Typical)



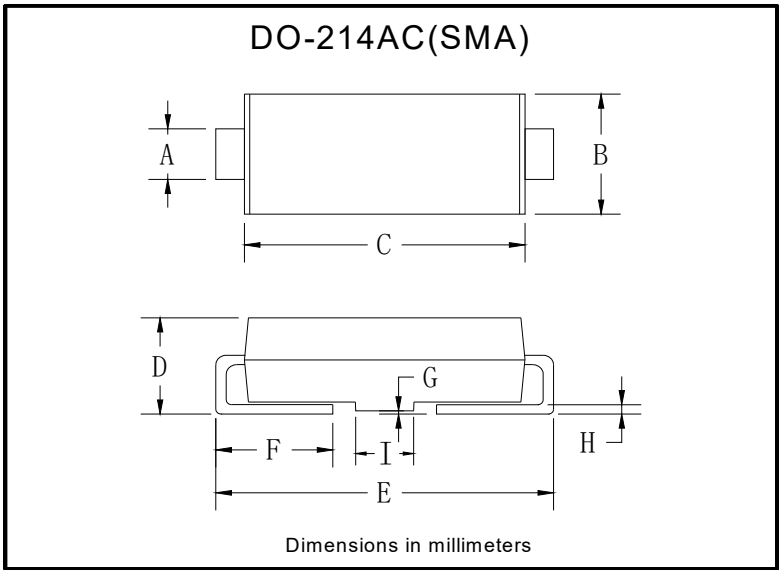


SS32AH THRU SS320AH

FIG5:Maximum Non-Repititive Peak Forward Current



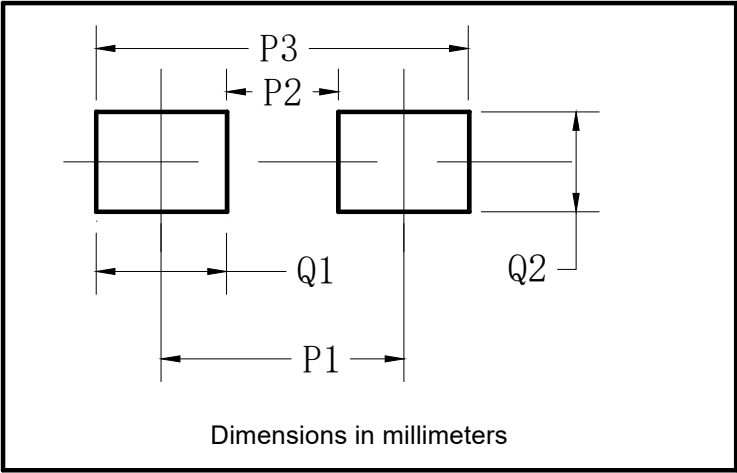
■ Outline Dimensions



DO-214AC(SMA)		
Dim	Min	Max
A	1.25	1.58
B	2.40	2.83
C	4.00	4.75
D	1.90	2.30
E	4.93	5.28
F	0.76	1.41
G	0.05	0.20
H	0.15	0.31
I	1.70	2.10



■Suggested Pad Layout



DO-214AC(SMA)	
Dim	Millimeters
P1	4.00
P2	1.50
P3	6.50
Q1	2.50
Q2	1.70



SS32AH THRU SS320AH

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