

SS34-HF Thru. SS320-HF

Reverse Voltage: 40 to 200 Volts

Forward Current: 3.0 Amp

RoHS Device Halogen Free



Features

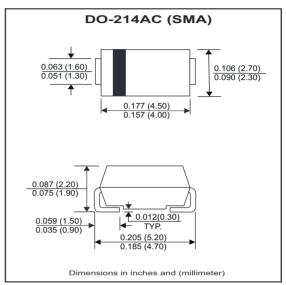
- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical data

- Case: SMA

- Terminals: Solderable per MIL-STD-750, Method 2026

- Approx. Weight: 60mg / 0.0021oz



Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20~%

Parameter	Symbols	SS34	SS36	SS310	SS315	SS320	Units
Maximum repetitive peak reverse voltage	Vrrm	40	60	100	150	200	V
Maximum RMS voltage	VRMS	28	42	70	105	140	V
Maximum DC blocking voltage	VDC	40	60	100	150	200	V
Maximum average forward rectified current	lF(AV)			3.0			А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80			А		
Max instantaneous forward voltage at 3 A	VF	0.55 0.70 0.85 0.95		95	V		
Maximum DC reverse current $T_i = 25^{\circ}C$ at rated DC reverse voltage $T_i = 100^{\circ}C$	lR	0.5 5 0.3 3				mA	
Typical junction capacitance (Note 1)	Cj	450 400				pF	
Typical thermal resistance (Note 2)	Reja	70				°C/W	
Operating junction temperature range	Tj	-55 ~ +1 25			°C		
Storage temperature range	Tstg	-55 ~ + 150			°C		

Notes: 1. Measured at 1 MHz and applied reverse voltage of 4 V D.C

2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Company reserves the right to improve product design, functions and reliability without notice.

SMD Schottky Barrier Rectifiers



Rating and Characteristic Curves (SS34-HF Thru. SS320-HF)

Fig.1 - Forward Current Derating Curve

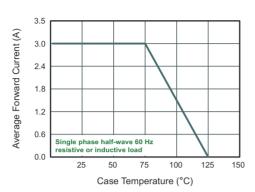


Fig.2 - Typical Reverse Characteristics

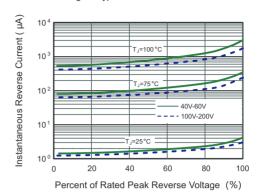


Fig.3 - Typical Forward Characteristic

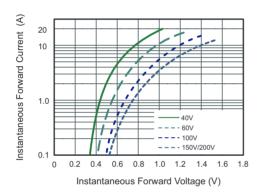


Fig.4 - Typical Junction Capacitance

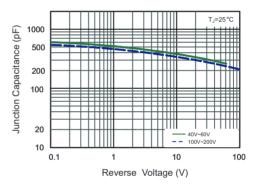


Fig.5 - Maximum Non-Repetitive Peak Forward Surge Current

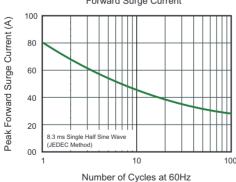
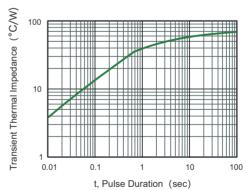
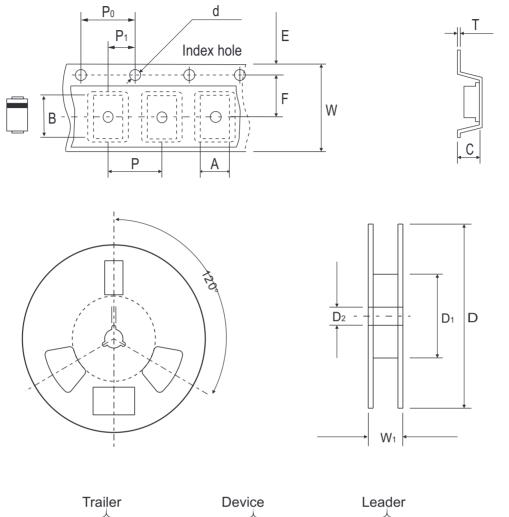


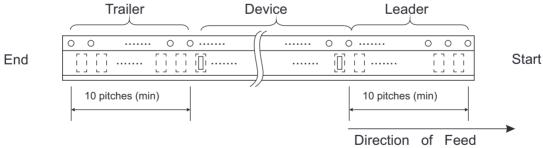
Fig.5 - Typical Transient Thermal Impedance





Reel Taping Specification





DO 04440	SYMBOL	Α	В	С	d	D	D1	D2
DO-214AC (SMA)	(mm)	2.70 ± 0.10	5.30 ± 0.10	2.66 ± 0.10	1.50 ± 0.10	330 ± 2.00	50.0 MIN.	13.50 ± 0.50
	(inch)	0.106 ± 0.004	0.209 ± 0.004	0.105 ± 0.004	0.059 ± 0.004	12.99 ± 0.079	1.969 MIN.	0.531 ± 0.020

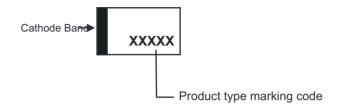
DO 04440	SYMBOL	Е	F	Р	P ₀	P1	Т	W	W1
DO-214AC (SMA)	(mm)	1.75 ± 0.10	5.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.60 ± 0.10	$\textbf{12.0} \pm \textbf{0.30}$	18.4 ± 1.00
, ,	(inch)	0.069 ± 0.004	0.217 ± 0.004	0.157± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.024± 0.004	0.472 ±0.012	0.724 ± 0.040

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Marking Code

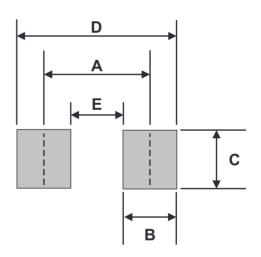
Part Number	Marking Code
SS34-HF	SS34
SS36-HF	SS36
SS310-HF	SS310
SS315-HF	SS315
SS320-HF	SS320



xxxxx = Product type marking code

Suggested PAD Layout

	DO-214AC (SMA)			
SIZE	(mm)	(inch)		
Α	4.00	0.157		
В	2.50	0.100		
С	1.80	0.071		
D	6.50	0.256		
E	1.50	0.060		



Standard Packaging

	REEL PACK			
Case Type	REEL (pcs)	Reel Size (inch)		
DO-214AC (SMA)	5,000	13		

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