

SS32 THRU SS3200

Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Ampere

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

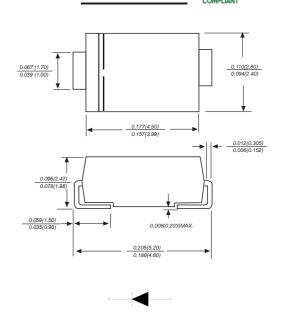
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:
 250 °C/10 seconds at terminals

Mechanical Data

Case: JEDEC DO-214AC/SMA molded plastic body Terminals: Solderable per MIL-STD-750,Method 2026 Polarity: Color band denotes cathode end Mounting

Position: Any

Weight: 0.0018 ounce, 0.064 grams



DO-214AC/SMA

RŏHS

Dimensions in inches and (millimeters)

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 current derate by 20%.

Parameter		MDD SS32	MDD SS33	MDD SS34	MDD SS35	MDD SS36	MDD SS38	MDD SS310	MDD SS3150	MDD SS3200	UNITS
Marking Code											
Maximum repetitive peak reverse voltage		20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage		14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage		20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current at TL(see fig.1)	I(AV) 3.0						А				
Peak forward surge current											
8.3ms single half sine-wave		80						Α			
superimposed onrated load (JEDEC Method)											
Maximum instantaneous forward voltage at 3.0A	VF	0.55			0.70		0.85		0.95	V	
Maximum DC reverse current Ta=25 ℃		0.5 0.2									
at rated DCblocking voltage T _A =125℃	l IR	20					10	2	2.0 mA		
Typical junction capacitance (NOTE 1)	C¹		500				300			pF	
Typical thermal resistance (NOTE 2)	Rθja	A 55.0			°C/W						
Operating junction temperature range		-55 to +125 -55 to +150				°C					
Storage temperature range	Тѕтс	-55 to +150						°C			

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

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Typical Characterisitics

Fig.1 Forward Current Derating Curve

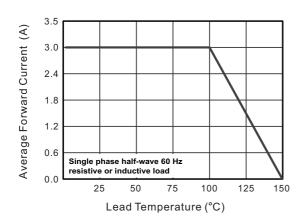


Fig.2 Typical Reverse Characteristics

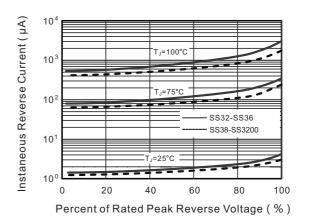


Fig.3 Typical Forward Characteristic

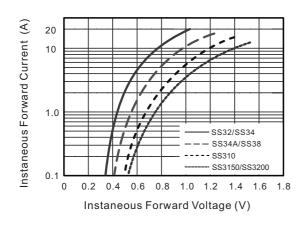


Fig.4 Typical Junction Capacitance

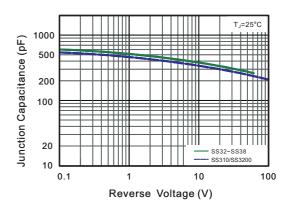


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

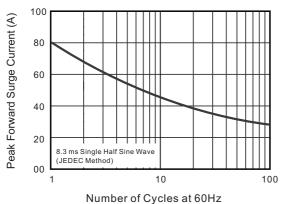
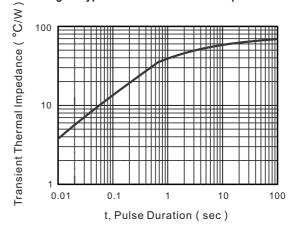


Fig.5- Typical Transient Thermal Impedance



The curve above is for reference only.

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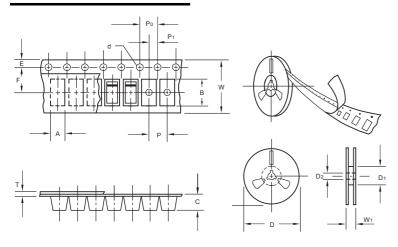


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Packing information

unit:mm



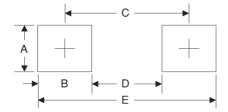
Item	Symbol	Tolerance	SMA
Carrier width	Α	0.1	2.80
Carrier length	В	0.1	5.33
Carrier depth	С	0.1	2.36
Sprocket hole	d	0.05	1.50
13" Reel outside diameter	D	2.0	330.00
13" Reel inner diameter	D1	min	50.00
7" Reel outside diameter	D	2.0	178.00
7" Reel inner diameter	D1	min	62.00
Feed hole diameter	D2	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	5.50
Punch hole pitch	Р	0.1	4.00
Sprocket hole pitch	Po	0.1	4.00
Embossment center	P1	0.1	2.00
Overall tape thickness	Т	0.1	0.28
Tape width	W	0.3	12.00
Reel width	W1	1.0	18.00

Note:Devices are packed in accor dance with EIA standar RS-481-A and specifications listed above.

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (m/m)	BOX (pcs)	INNER BOX (m/m)	REEL DIA, (m/m)	CARTON SIZE (m/m)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
SMA	7"	2,000	4.0	4,000	183*155*183	178	382*356*392	80,000	16.0
SMA	11"	5,000	4.0	10,000	290*290*38	330	310*310*360	80,000	11.0
SMA	13"	7,500	4.0	15,000	335*335*38	330	350*330*360	120,000	14.5

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
Α	1.68	0.066
В	1.52	0.060
С	3.90	0.154
D	2.41	0.095
E	5.45	0.215

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