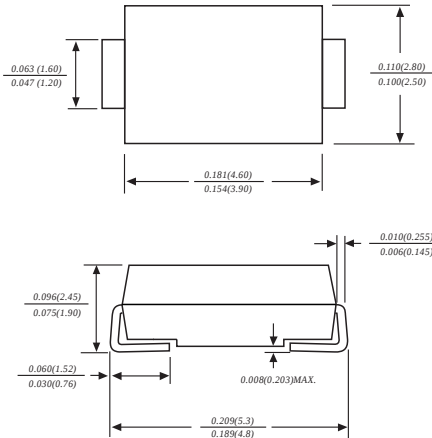


SS32 THRU SS320

Surface Mount Schottky Barrier Rectifier

DO-214AC/SMA



Dimensions in inches and (millimeters)

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 molded plastic body

Terminals: leads solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.003 ounce, 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

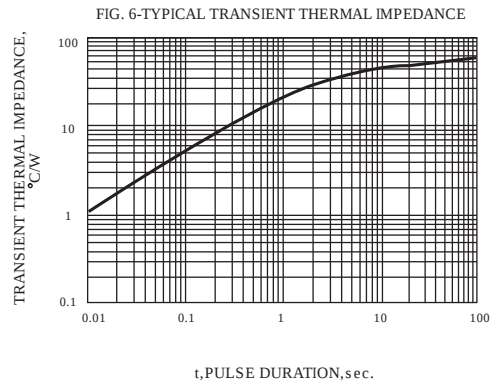
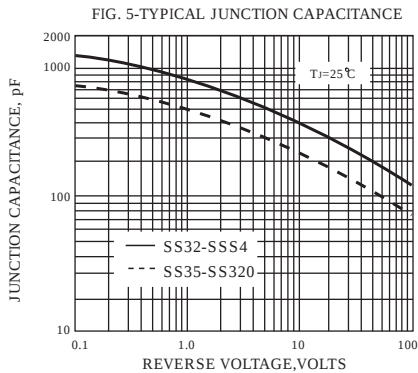
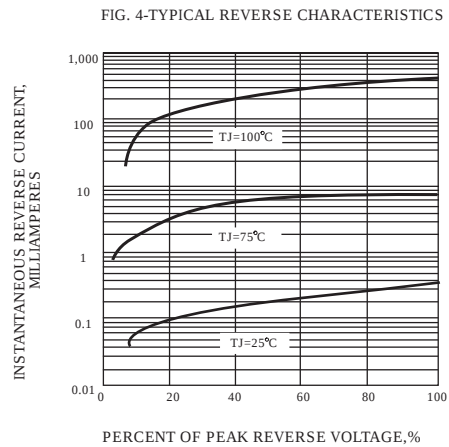
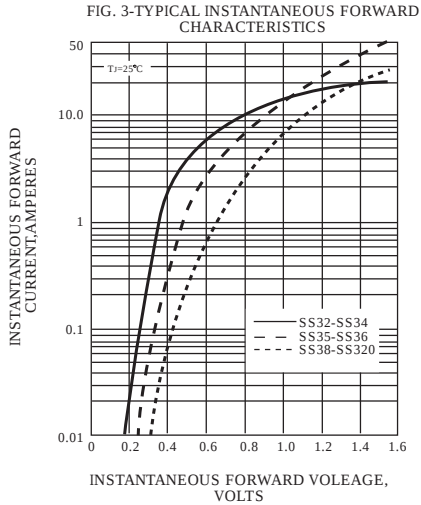
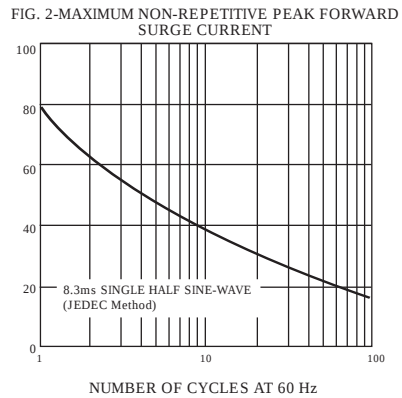
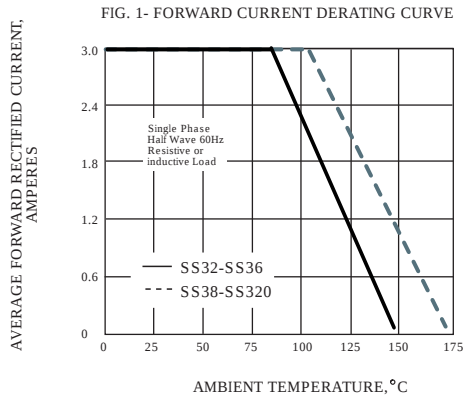
Ratings at 25°C ambient temperature unless otherwise specified.

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

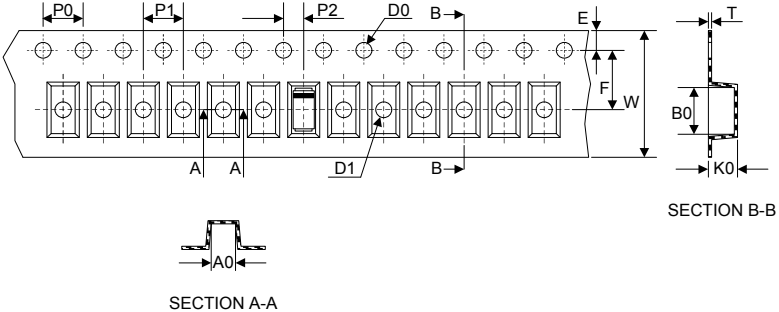
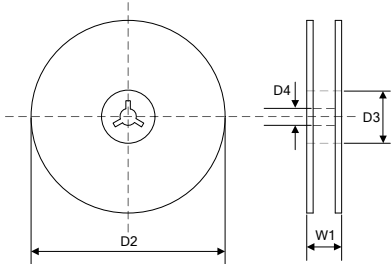
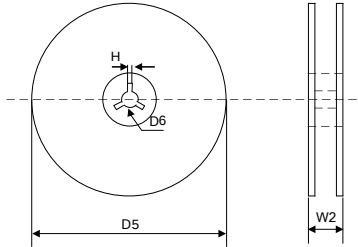
	SYMBOLS	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	UNITS	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	VOLTS	
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	VOLTS	
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	100	VOLTS	
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	3.0									Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80.0									Amps	
Maximum instantaneous forward voltage at 3.0A	V _F	0.55			0.70		0.85			0.95	Volts	
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.5									mA	
		20			10							
Typical junction capacitance (NOTE 1)	C _J	500			300							pF
Typical thermal resistance (NOTE 2)	R _{qJA}	88.0									°C/W	
Operating junction temperature range	T _J	-65 to +150						-65 to +175			°C	
Storage temperature range	T _{STG}	-65 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



Packaging

Tape 	<table> <tr> <th>Symbol</th><th>Dimension (mm)</th></tr> <tr><td>W</td><td>12.00±0.20</td></tr> <tr><td>P0</td><td>4.00±0.10</td></tr> <tr><td>P1</td><td>4.00±0.10</td></tr> <tr><td>P2</td><td>2.00±0.10</td></tr> <tr><td>D0</td><td>Φ1.5±0.10</td></tr> <tr><td>D1</td><td>Φ1.5±0.10</td></tr> <tr><td>E</td><td>1.75±0.10</td></tr> <tr><td>F</td><td>5.50±0.05</td></tr> <tr><td>A0</td><td>2.79±0.10</td></tr> <tr><td>B0</td><td>5.33±0.10</td></tr> <tr><td>K0</td><td>2.55±0.15</td></tr> <tr><td>T</td><td>0.25±0.05</td></tr> </table>	Symbol	Dimension (mm)	W	12.00±0.20	P0	4.00±0.10	P1	4.00±0.10	P2	2.00±0.10	D0	Φ1.5±0.10	D1	Φ1.5±0.10	E	1.75±0.10	F	5.50±0.05	A0	2.79±0.10	B0	5.33±0.10	K0	2.55±0.15	T	0.25±0.05
Symbol	Dimension (mm)																										
W	12.00±0.20																										
P0	4.00±0.10																										
P1	4.00±0.10																										
P2	2.00±0.10																										
D0	Φ1.5±0.10																										
D1	Φ1.5±0.10																										
E	1.75±0.10																										
F	5.50±0.05																										
A0	2.79±0.10																										
B0	5.33±0.10																										
K0	2.55±0.15																										
T	0.25±0.05																										
7" Reel 	<table> <tr><td>D2</td><td>Φ178.0±2.0</td></tr> <tr><td>D3</td><td>Φ50.0Min.</td></tr> <tr><td>D4</td><td>Φ13.0±0.5</td></tr> <tr><td>W1</td><td>16.0±2.0</td></tr> <tr><td colspan="2">Quantity: 2000PCS</td></tr> </table>	D2	Φ178.0±2.0	D3	Φ50.0Min.	D4	Φ13.0±0.5	W1	16.0±2.0	Quantity: 2000PCS																	
D2	Φ178.0±2.0																										
D3	Φ50.0Min.																										
D4	Φ13.0±0.5																										
W1	16.0±2.0																										
Quantity: 2000PCS																											
11" Reel 	<table> <tr><td>D5</td><td>Φ280.0±2.0</td></tr> <tr><td>D6</td><td>Φ13.5±0.5</td></tr> <tr><td>H</td><td>2.5±1.0</td></tr> <tr><td>W2</td><td>16.0±2.0</td></tr> <tr><td colspan="2">Quantity: 5000PCS</td></tr> </table>	D5	Φ280.0±2.0	D6	Φ13.5±0.5	H	2.5±1.0	W2	16.0±2.0	Quantity: 5000PCS																	
D5	Φ280.0±2.0																										
D6	Φ13.5±0.5																										
H	2.5±1.0																										
W2	16.0±2.0																										
Quantity: 5000PCS																											

Please Read Carefully

Thank you for using or about to use our company's products. We suggest that you carefully read this material before use.

- Our company strives to provide users with higher quality products and services.
- Jiangsu POWERSi Microelectronics Co., Ltd. will periodically optimize its products and corresponding specifications, and may not be able to notify you in a timely manner. Please download the latest version regularly.
- Jiangsu POWERSi Microelectronics Co., Ltd. assumes no responsibility or risk for any use of its products for special purposes.
- Jiangsu POWERSi Microelectronics Co., Ltd. holds patent rights for its own products.
- Any semiconductor product has a certain possibility of failure or malfunction under specific conditions. The buyer is requested to comply with safety standards and take safety measures when using products from Jiangsu POWERSi Microelectronics Co., Ltd. for system design and complete machine manufacturing, in order to avoid situations that may cause personal injury or property damage!