

SuperDiode – 3A, 20~100V Surface Mount Schottky Barrier Rectifier

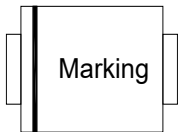

1. Features

- Flammability Classification 94V-0
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250 °C/10 seconds at terminals

2. Mechanical Data

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

3. Marking and Circuit

Marking	Circuit
	

4. Specification

Absolute Maximum Rating & 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%.

Parameters	Symbols	SS32	SS33	SS34	SS35	SS36	SS38	SS310	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	V	
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	V	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	V	
Maximum average forward rectified current at TL(Fig1)	$I_{(AV)}$	3.0							A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100.0							A	
Maximum instantaneous forward voltage at 3.0A	V_F	0.55			0.70		0.85		V	
Maximum DC reverse current at rated DC blocking voltage	I_R	0.5							mA	
		20					10			
Typical junction capacitance (NOTE 1)	C_J	500			300				pF	
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	55.0							°C/W	
Operating junction temperature range	T_J	-50 ~ 125					-50 ~ 150			°C
Storage temperature range	T_{STG}	-50 ~ 150							°C	

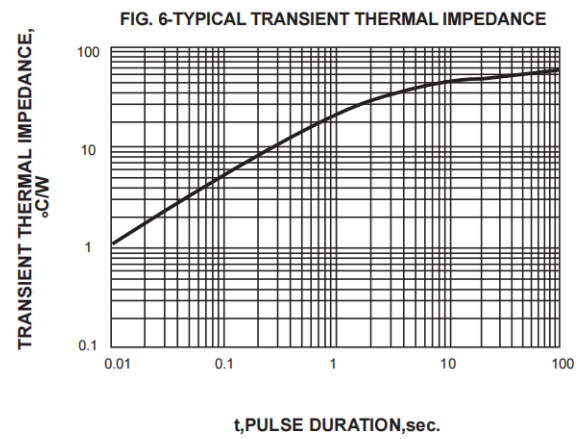
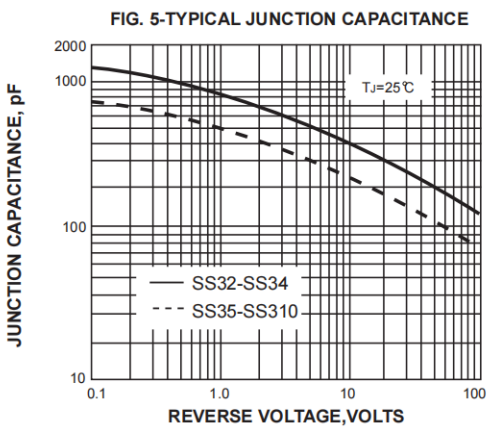
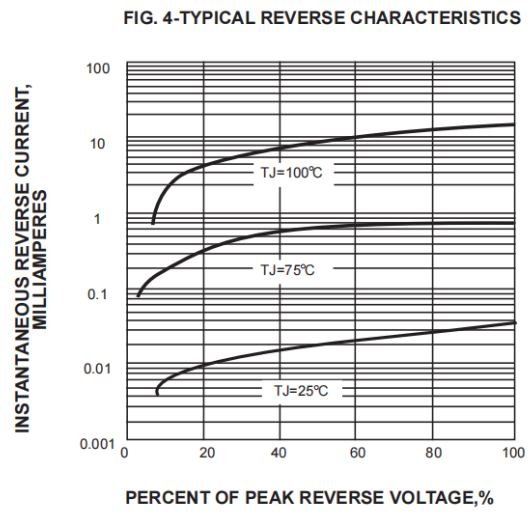
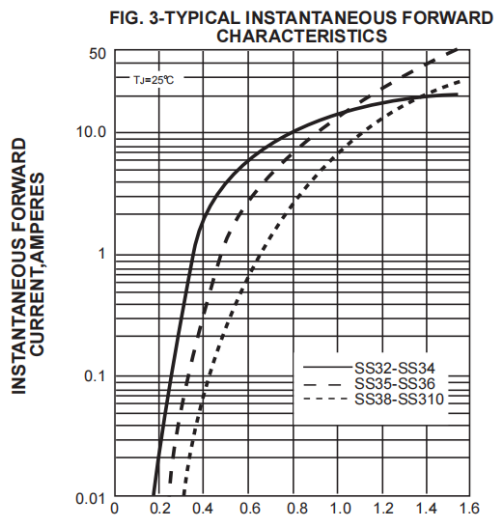
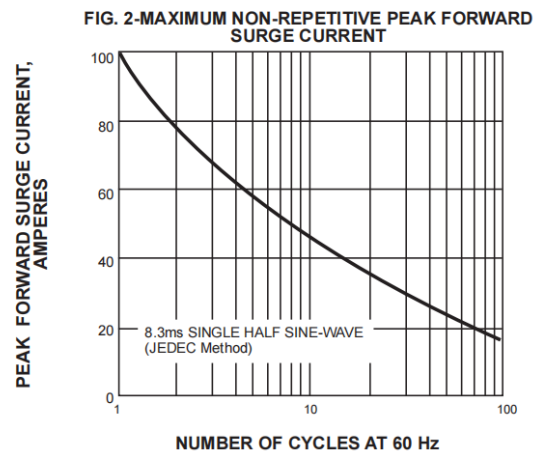
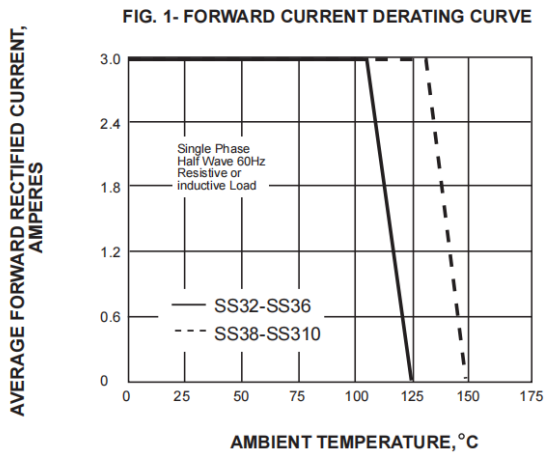
SS32 THRU SS310

Rev-1.1

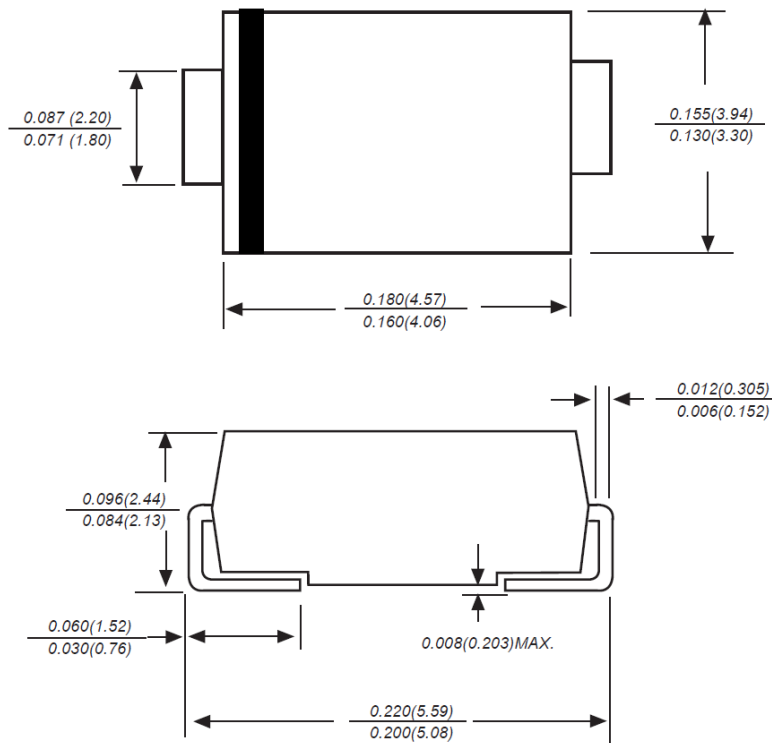
Note:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. PCB mounted on 0.2*0.2" (5.0*5.0mm) copper pad area.

5. Typical Characteristic



6. Dimension (DO-214AA/SMB)



Dimensions in inches and (millimeters)

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