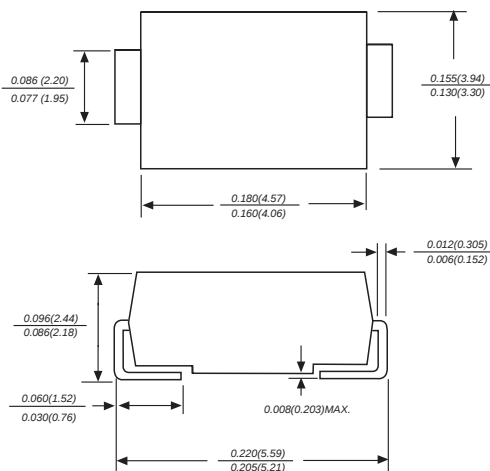


DO-214AA/SMB



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

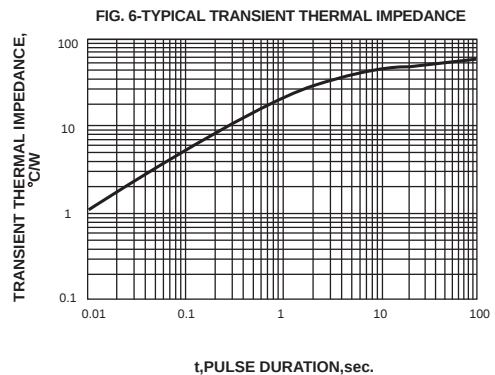
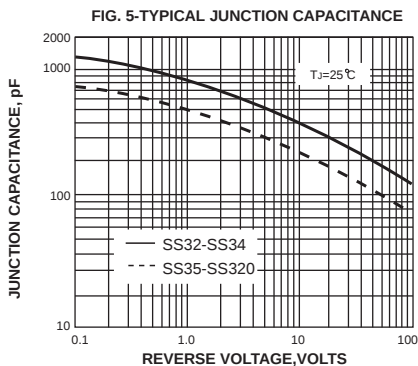
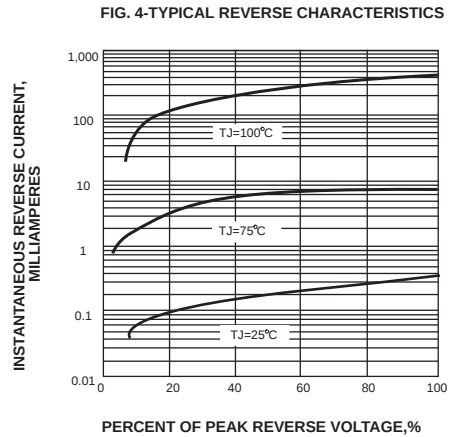
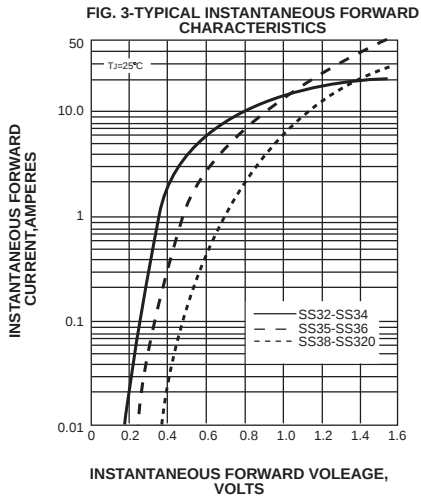
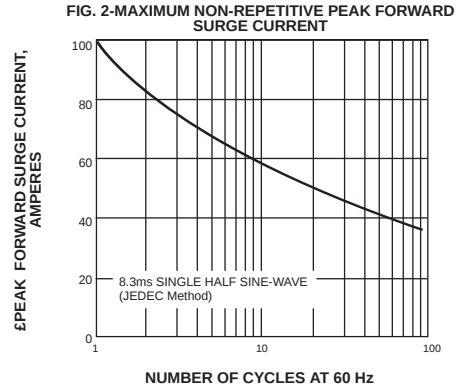
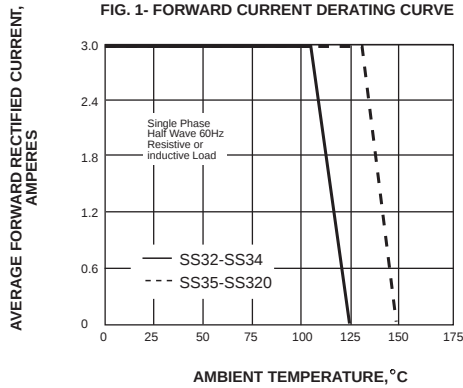
Case: JEDEC DO-214AA molded plastic body
Terminals: leads solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.005 ounce, 0.138 grams

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%.

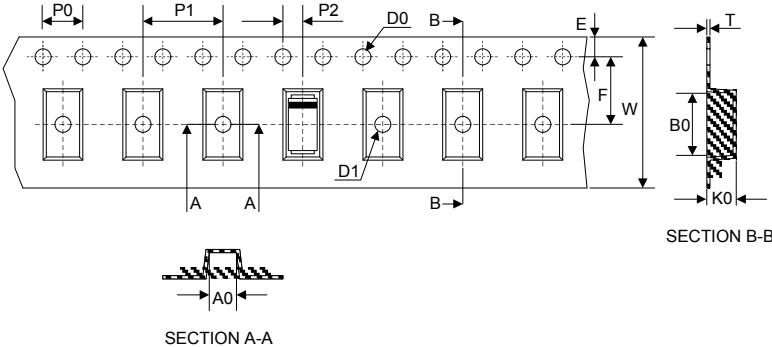
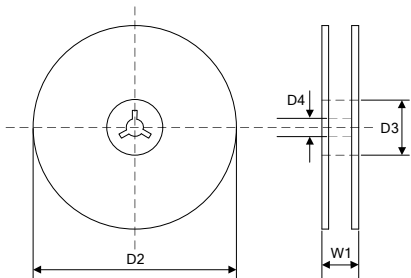
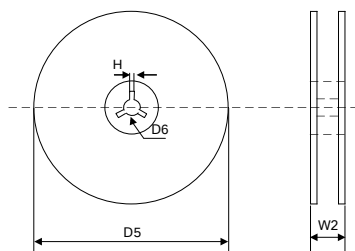
	SYMBOLS	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	3.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100.0									Amps
Maximum instantaneous forward voltage at 3.0A	V _F	0.55			0.70		0.85			0.95	Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	0.5									mA
TA=25°C TA=100°C		20			10						
Typical junction capacitance (NOTE 1)	C _J	500			300						pF
Typical thermal resistance (NOTE 2)	R _{qJA}	55.0									°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 0.4x0.4" (10x10mm) copper pad areas





Packaging

Tape	Tape		Symbol	Dimension (mm)
			W	12.00±0.20
			P0	4.00±0.10
			P1	8.00±0.10
			P2	2.00±0.10
			D0	Φ1.55±0.10
			D1	Φ1.5±0.10
			E	1.75±0.10
			F	5.50±0.10
			A0	3.86±0.15
			B0	5.65±0.10
7" Reel			K0	2.75±0.15
			T	0.25±0.05
			D2	Φ178.0±2.0
			D3	Φ50.0Min.
			D4	Φ13.0±0.5
			W1	16.0±2.0
13" Reel			Quantity: 500PCS	
			D5	Φ330.0±2.0
			D6	Φ13.5±0.5
			H	2.5±1.0
			W2	16.0±2.0
			Quantity: 3000PCS	