

SS22 THUR SS220

SS22 THUR SS220 Schottky Barrier Rectifiers

General description

2.0Amp Surface Mounted Schottky Barrier Rectifiers

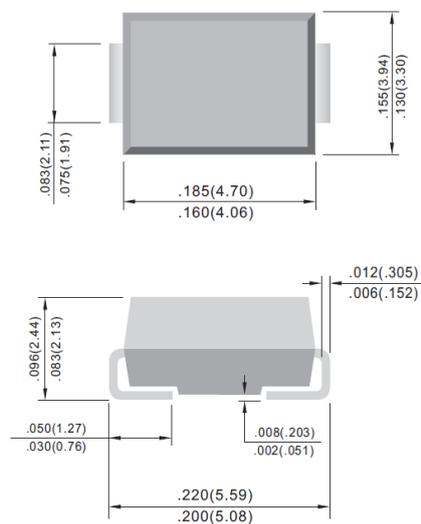
FEATURES

- Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss, high efficiency
- High surge capacity
- High temperature soldering guaranteed 260 C/10 seconds at terminals and polarity protection applications

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750,
- Method 2026
- Polarity: Color band denotes positive end (cathode)
- Weight: 0.005 ounce, 0.138 gram

SMB/DO214AA



Unit: inch (mm)

Maximum Ratings And Electrical Characteristics

Parameter	SYMBOLS	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	UNITS
Marking Code	Mark	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	N/A
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)	2.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0									Amps
Maximum instantaneous forward voltage at 2.0A	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						0.2		mA	
		10.0			5.0		2.0				
Typical junction capacitance (NOTE 1)	C _J	220			180					pF	
Typical thermal resistance (NOTE 2)	R _{θJA}	75.0									°C/W
Operating junction temperature range	T _J	-55 to +125				-55 to +150				°C	
Storage temperature range	T _{STG}	-55 to +150									°C

Note:

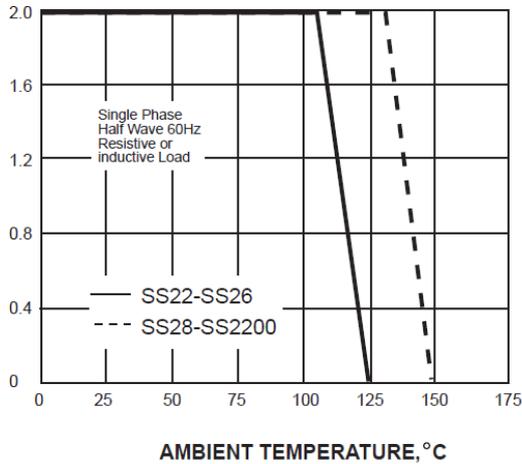
1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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Rating And Characteristic Curves

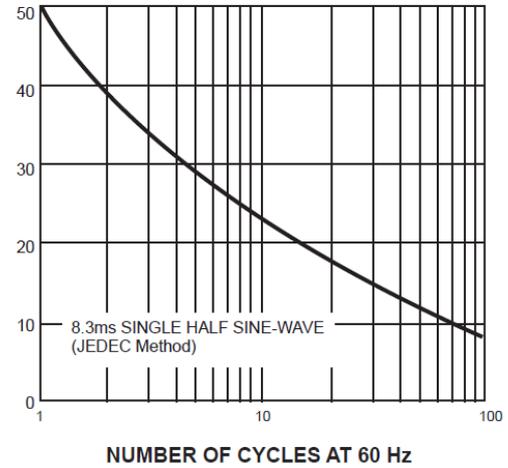
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



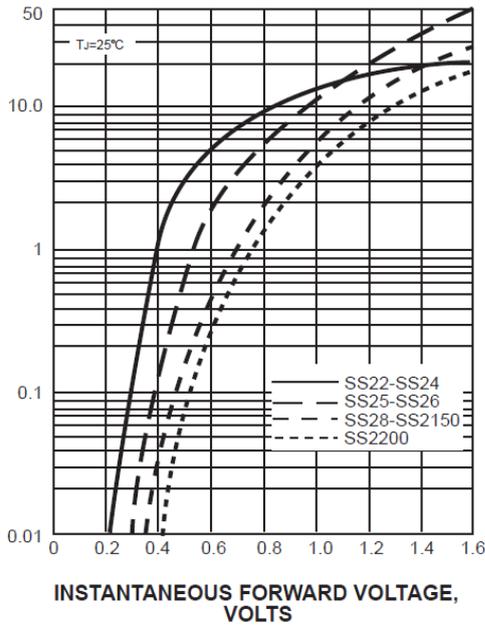
PEAK FORWARD SURGE CURRENT, AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



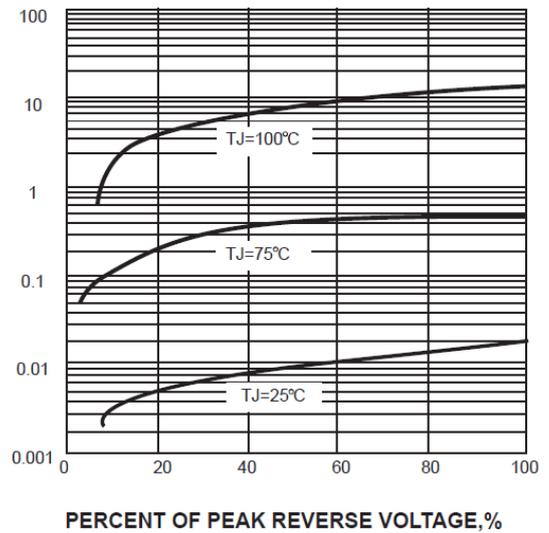
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



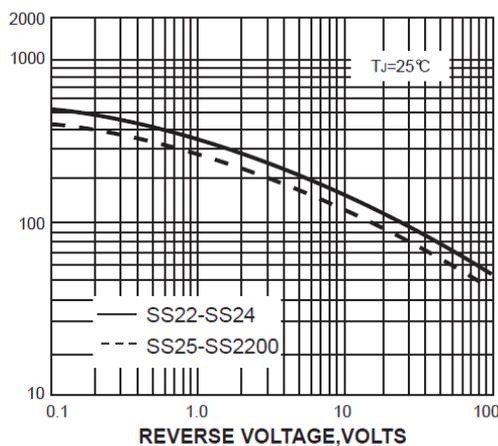
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



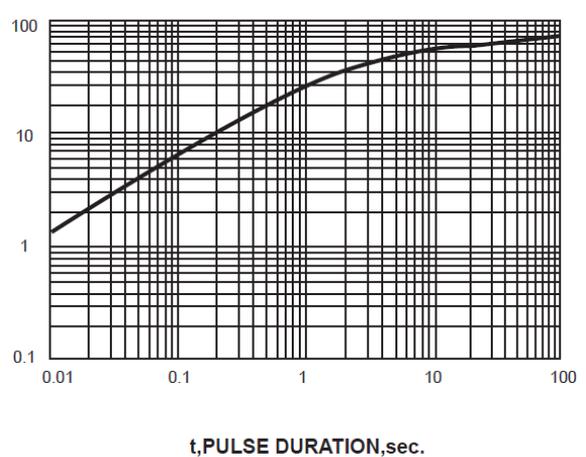
JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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