

# SS22 THUR SS220

## SS22 THUR SS220 Schottky Barrier Rectifiers

### General description

2.0Amp Surface Mounted Schottky Barrier Rectifiers

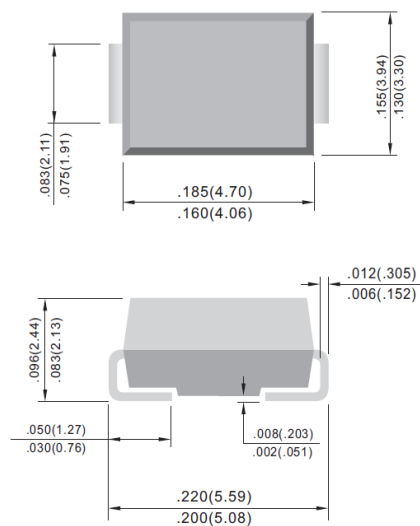
### FEATURES

- 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 <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T <sub>L</sub> (see fig.1)	I <sub>(AV)</sub>	2.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50.0									Amps
Maximum instantaneous forward voltage at 2.0A	V <sub>F</sub>	0.55		0.70		0.85		0.95		Volts	
Maximum DC reverse current T <sub>A</sub> =25-C at rated DC blocking voltage T <sub>A</sub> =100-C	I <sub>R</sub>	0.5							0.2		mA
		10.0				5.0		2.0			
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	220			180				pF		
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	75.0									°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to +125				-55 to +150				°C	
Storage temperature range	T <sub>STG</sub>	-55 to +150									°C

Note:

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

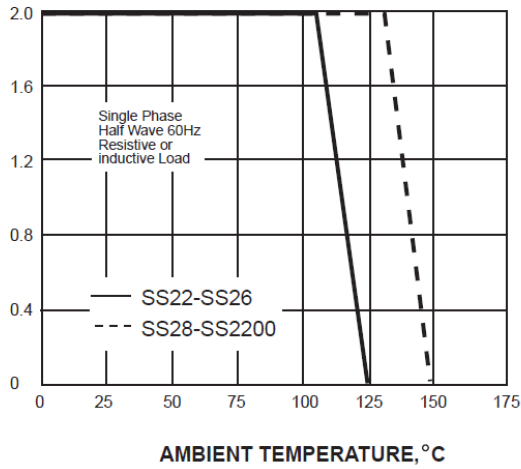
# SS22 THUR SS220



## Rating And Characteristic Curves

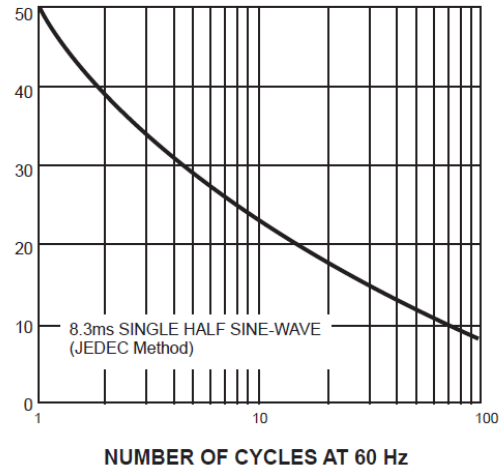
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



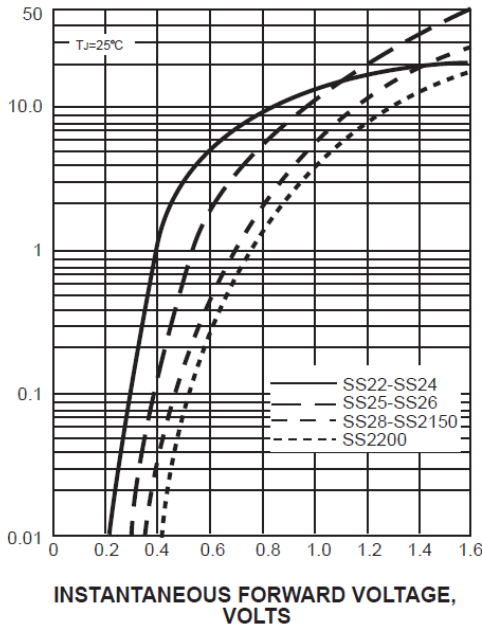
PEAK FORWARD SURGE CURRENT, AMPERES

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



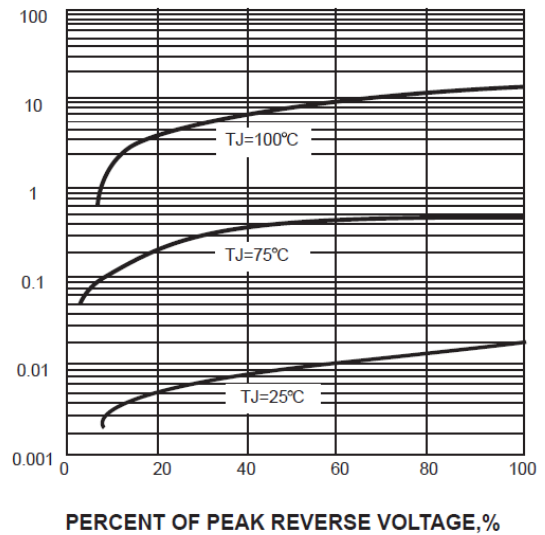
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



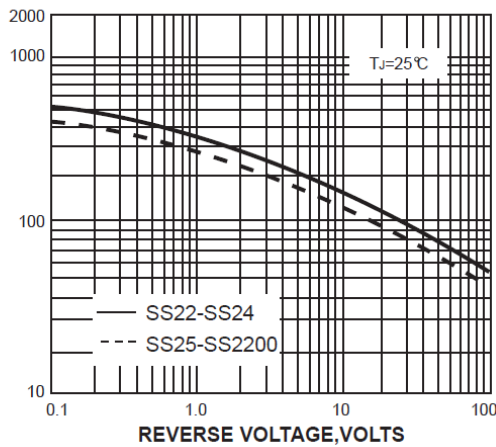
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



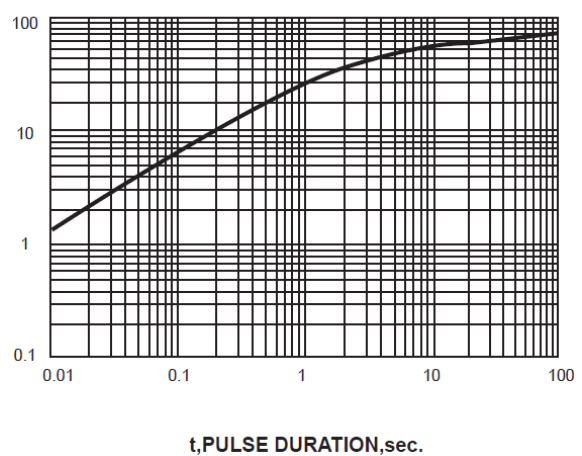
JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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