

SS22 THUR SS220

SS22 THUR SS220 Schottky Barrier Rectifiers

General description

2.0Amp Surface Mounted Schottky Barrier Rectifiers

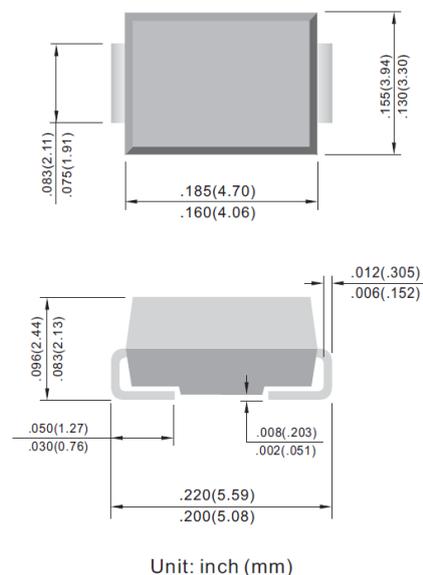
FEATURES

- 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



Maximum Ratings And Electrical Characteristics

	SYMBOLS	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	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)	$I_{(AV)}$	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 rated DC blocking voltage	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)	$R_{\theta JA}$	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

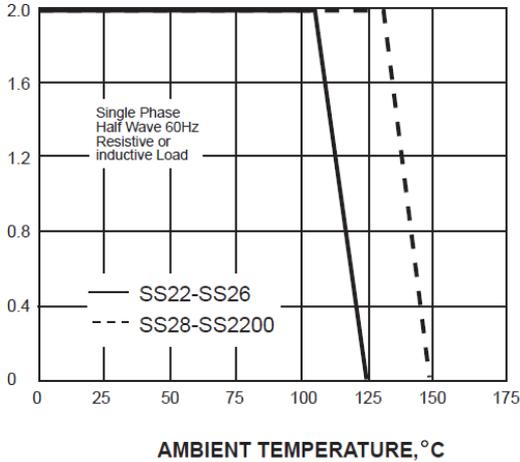
Note:

- 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

Rating And Characteristic Curves

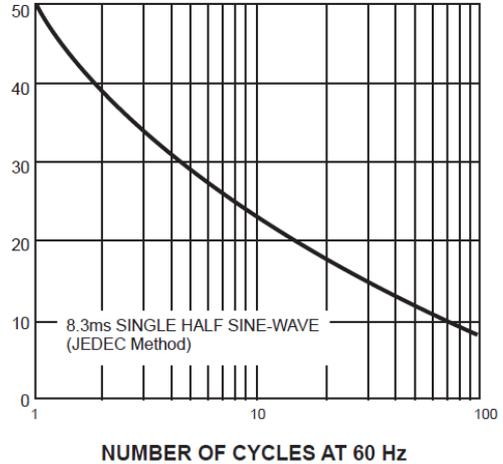
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



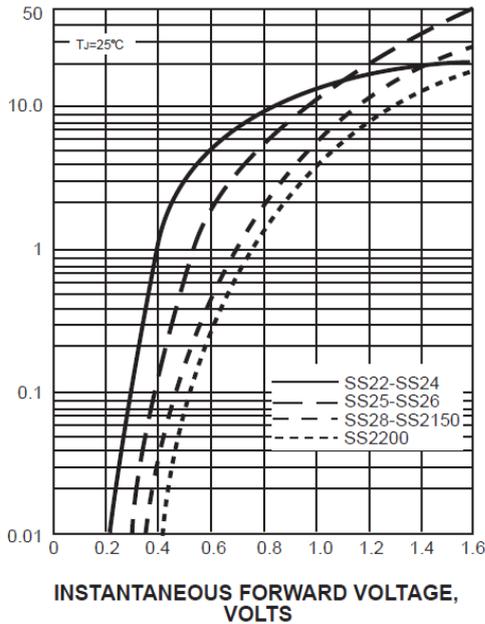
PEAK FORWARD SURGE CURRENT, AMPERES

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



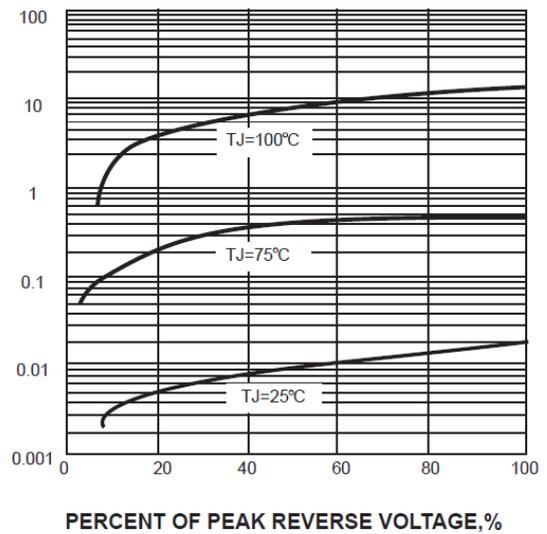
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



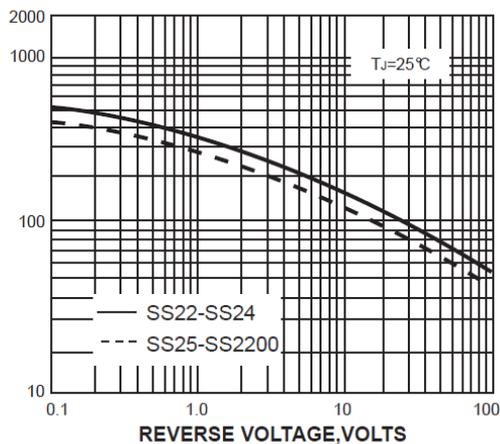
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



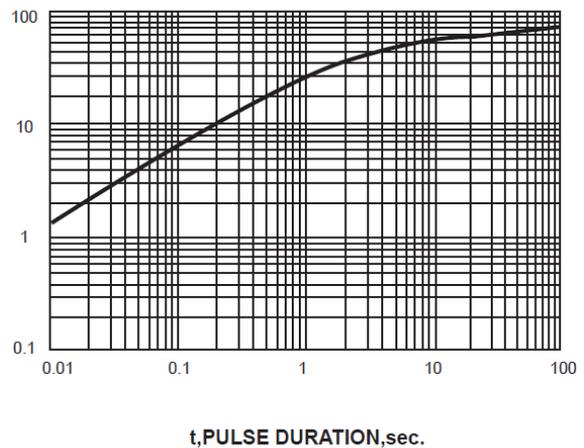
JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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