

SS22A THRU SS220A



2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.063 grams
- * Both normal and Pb free product are available:
 - * Normal: 80~95% Sn, 5~20% Pb
 - * Pb free: 99.5% Sn, 0.5% Cu, 0.5% Ag, 0.5% Ni, 0.5% Bi, 0.5% Au, 0.5% Cu, 0.5% Ag, 0.5% Ni, 0.5% Bi, 0.5% Au

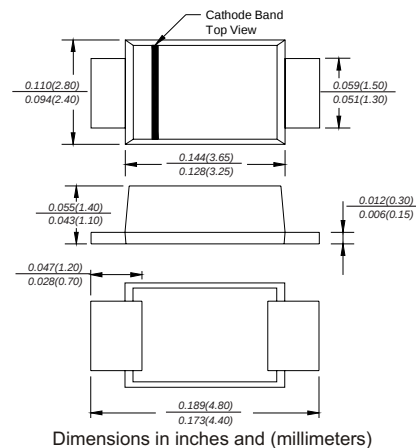
VOLTAGE RANGE

20 to 200 Volts

CURRENT

2.0 Ampere

SMAF



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

CTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SS22A	SS24A	SS26A	SS28A	SS210A	SS215A	SS220A	UNITS
Maximum Recurrent Peak Reverse Voltage	20	40	60	80	100	150	200	V
Maximum RMS Voltage	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current								
See Fig.1	2.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50							A
Maximum Instantaneous Forward Voltage at 2.0A	0.55		0.70	0.80				V
Maximum DC Reverse Current Ta=25°C	0.1							mA
at Rated DC Blocking Voltage Ta=100°C	5							mA
Typical Junction Capacitance (Note1)	170							pF
Typical Thermal Resistance R JA (Note 2)	70							°C/W
Operating Temperature Range Tj	-65 +150							°C
Storage Temperature Range Tstg	-65 — +150							°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (SS22A THRU SS220A)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

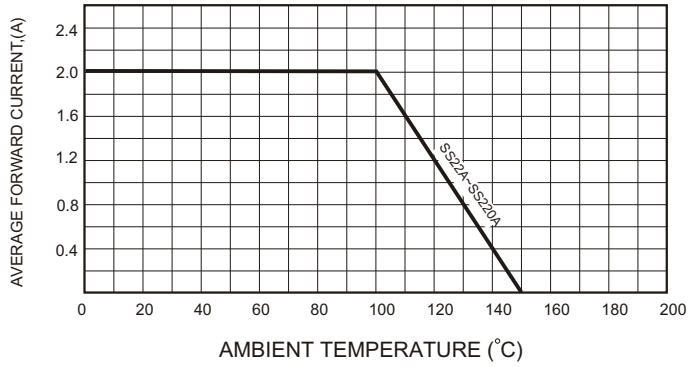


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

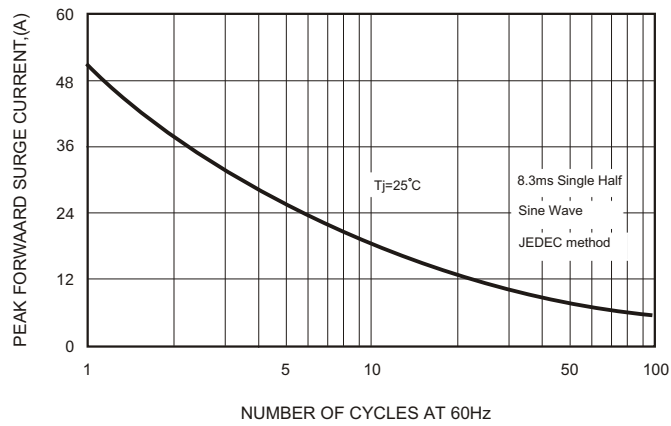


FIG.4-TYPICAL JUNCTION CAPACITANCE

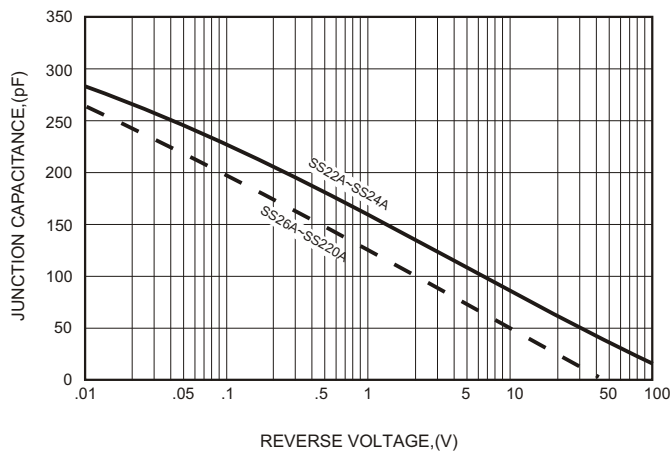


FIG.2-TYPICAL FORWARD CHARACTERISTICS

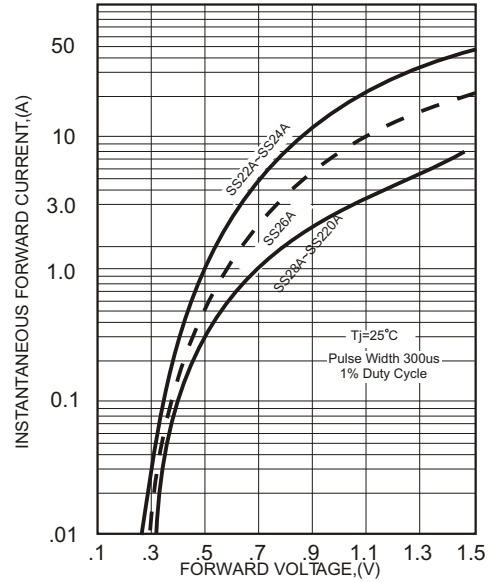


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

