

SS220 THRU SS2100



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

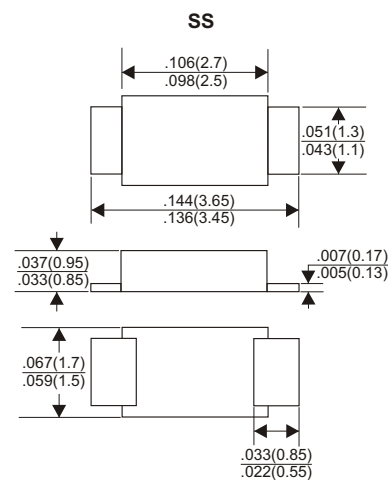
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE

20 to 100 Volts

CURRENT

2.0 Ampere



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	SS220	SS230	SS240	SS250	SS260	SS280	SS290	SS2100	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current									A
See Fig. 1	2.0								
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		0.85		V		
Maximum DC Reverse Current Ta=25°C	1.0								mA
at Rated DC Blocking Voltage Ta=100°C	20								mA
Typical Junction Capacitance (Note1)	170								pF
Typical Thermal Resistance R JA (Note 2)	80								°C/W
Operating Temperature Range Tj	-65 — +125			-65 — +150					°C
Storage Temperature Range Tstg	-65 — +150								°C
Marking Code	S22	S23	S24	S25	S26	S28	S29	S2T	

NOTES:

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

RATING AND CHARACTERISTIC CURVES (SS220 THRU SS2100)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

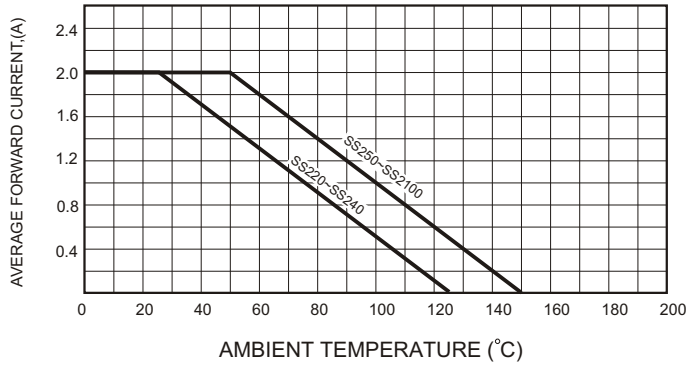


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

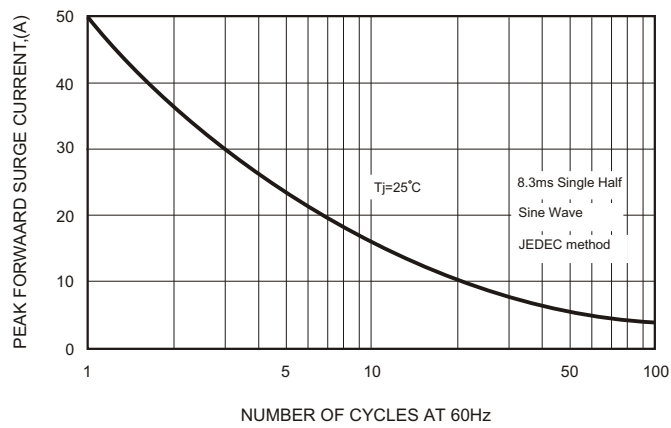


FIG.4-TYPICAL JUNCTION CAPACITANCE

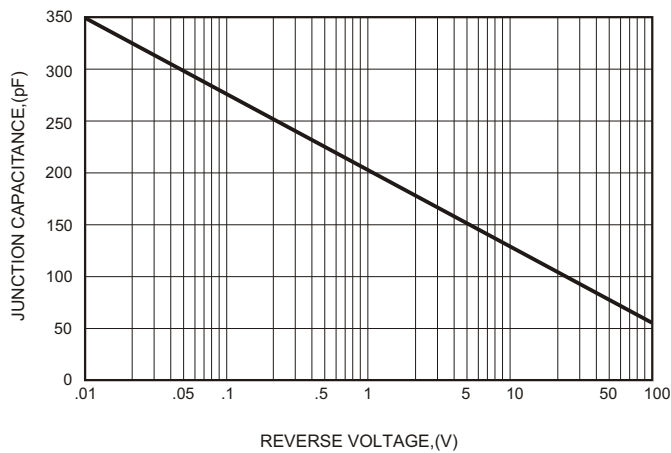


FIG.2-TYPICAL FORWARD CHARACTERISTICS

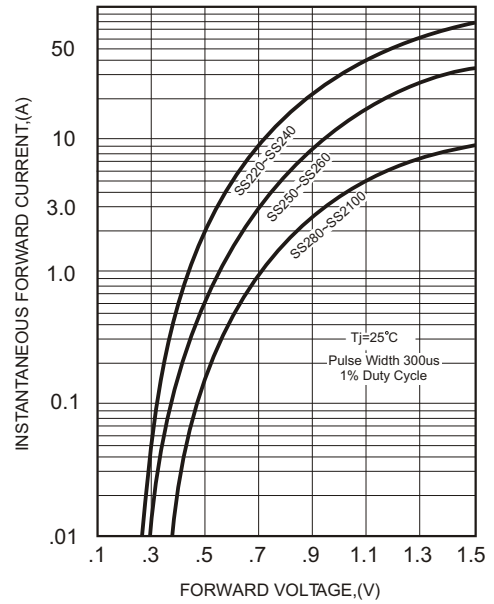


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

