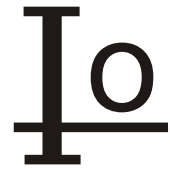


SS12 THRU SS110



1.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop
- * Lead Free Finish/RoHS Compliant

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: 0.066 grams

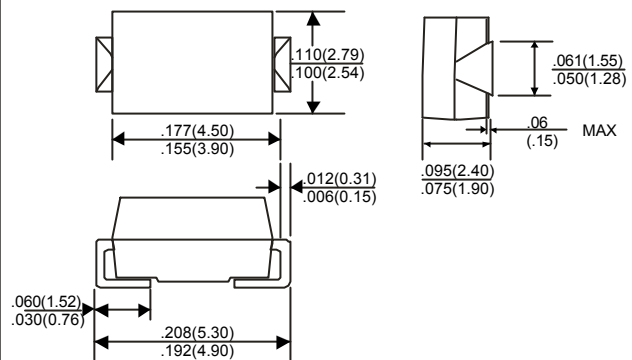
VOLTAGE RANGE

20 to 100 Volts

CURRENT

1.0 Ampere

DO-214AC



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	SS12	SS13	SS14	SS15	SS16	SS18	SS110	UNITS	
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V	
Maximum RMS Voltage	14	21	28	35	42	56	70	V	
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V	
Maximum Average Forward Rectified Current									
.375"(9.5mm) Lead Length at Ta=90°C								1.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								25	A
Maximum Instantaneous Forward Voltage at 1.0A	0.55		0.70		0.85			V	
Maximum DC Reverse Current Ta=25°C								500	uA
at Rated DC Blocking Voltage Ta=100°C								10	mA
Typical Junction Capacitance (Note1)								110	pF
Typical Thermal Resistance RqJA (Note 2)								50	°C/W
Operating Temperature Range Tj	-65 — +125			-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 (SS12 THRU SS110)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

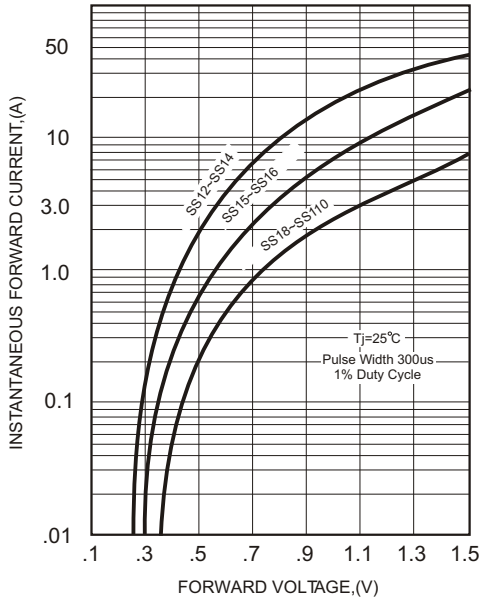


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

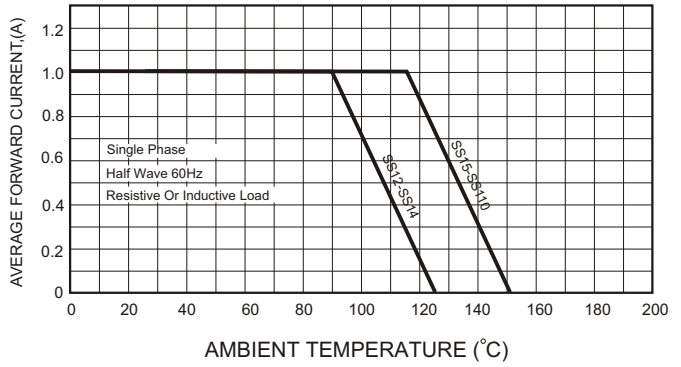


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

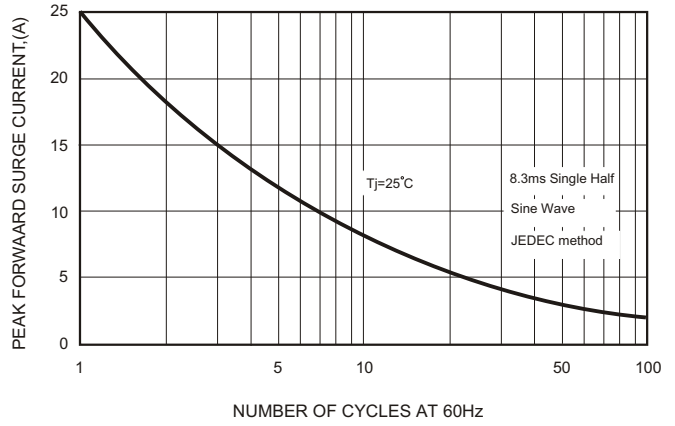


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

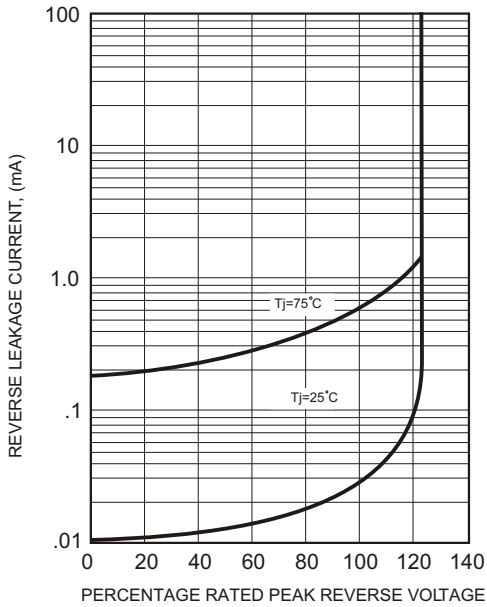


FIG.5-TYPICAL JUNCTION CAPACITANCE

