



SCHOTTKY BARRIER RECTIFIER

SS12 THRU SS110

VOLTAGE RANGE
CURRENT

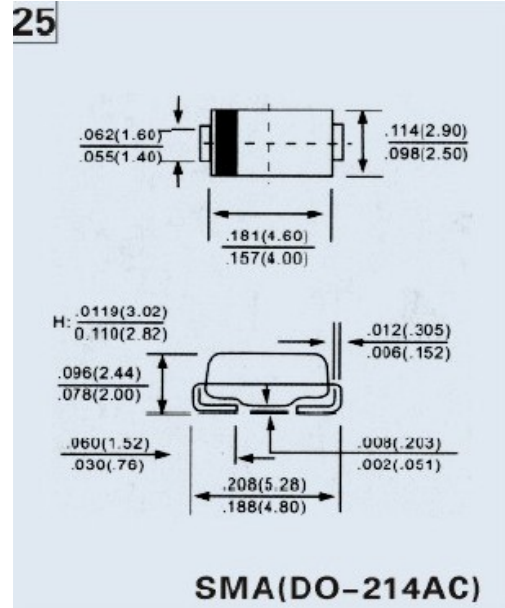
20 to 100Volts
1.0 Ampere

FEATURES

- Fast switching.
- Low forward voltage, high current capability.
- Low power loss, high efficiency.
- High current surge capability.
- High temperature soldering guaranteed:
250°C/10 seconds, 0.375" (9.5mm) lead length
at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V - 0 rate flame retardant.
- Polarity: Color band denoted cathode end.
- Lead: Plastic axial lead, solderable per MIL - STD - 202E
method 208C
- Mounting position : Any
- Weight: 0.012 ounce, 0.33 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbols	SS12	SS13	SS14	SS15	SS16	SS18	SS110	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage	$V_{R(RMS)}$	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum average forward rectified current	I_{FM}	1.0							A
Maximum forward voltage @ $I_F = 1.0A$	V_F	0.55			0.7		0.85		V
Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	40							A
Maximum reverse current @ $T_A = 25^\circ C$	I_R	0.5							mA
Typical thermal resistance	$R_{\theta JA}$	75							°C/W
Type junction capacitance $V_R = 4.0V$ $f = 1.0MHz$	C_j	15							pF
Operating junction and storage temperature range	T_j, T_{STG}	-50 --- +150							°C



Characteristic Curves

