



康比電子
HORNBY ELECTRONIC

SS12 THRU SS120

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: 20 to 200 VOLTS

FORWARD CURRENT: 1.0 AMPERE

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- High current capacity
- Built-in strain relief
- Low profile package
- Metal to silicon rectifier, majority carrier conduction
- High surge capacity
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering : 250°C /10 seconds at terminals

MECHANICAL DATA

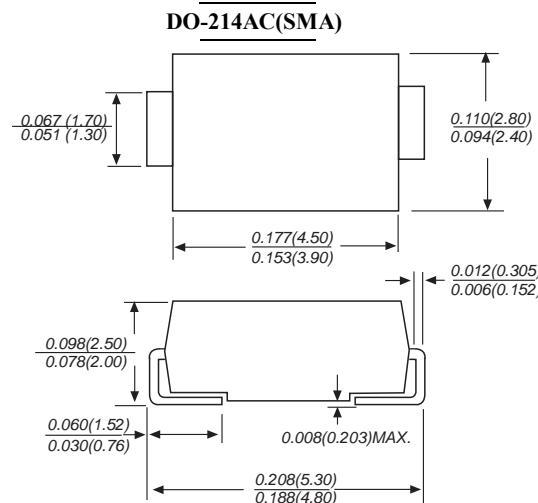
Case: Molded plastic, DO-214AC(SMA)

Terminals: Solder plated, solderable per MIL-STD-750, method 2026 guaranteed

Polarity: Color band denotes cathode end

Packaging: 12mm tape per EIA STD RS-481

Weight: 0.002 ounce, 0.064 gram



Dimensions in inches and (millimeters)

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	SS19	SS110	SS115	SS120	Units								
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	150	200	Volts								
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	70	105	140	Volts								
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	150	200	Volts								
Maximum Average Forward Rectified Current at T_L (See Fig. 1)	I_(AV)	1.0										Amp								
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30										Amp								
Maximum Forward Voltage at 1.0A (Note 1)	V_F	0.55		0.70		0.85		0.95				Volts								
Maximum Reverse Current at T_A=25°C at Rated DC Blocking Voltage T_A=100°C	I_R	0.5 20										mAmp								
Typical Thermal Resistance (Note 2)	R_{θJA} R_{θJL}	88 28										°C/W								
Operating Junction Temperature Range	T_J	-55 to +125										°C								
Storage Temperature Range	T_{stg}	-55 to +150										°C								

NOTES:

1- Pulse test: 300μs pulse width, 1% duty cycle

2- P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas

SS12 THRU SS120

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



康比電子
HORNBY ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES

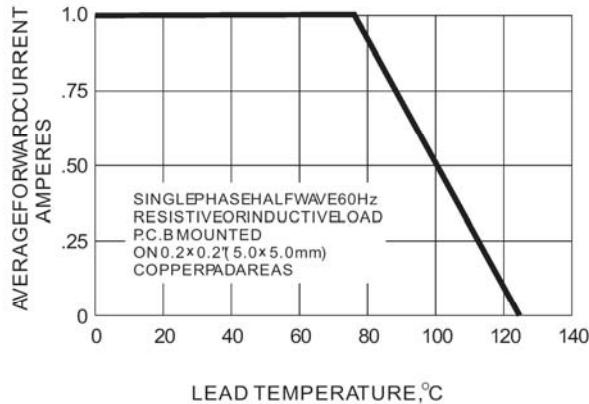


Fig.1-FORWARD CURRENT DERATING CURVE

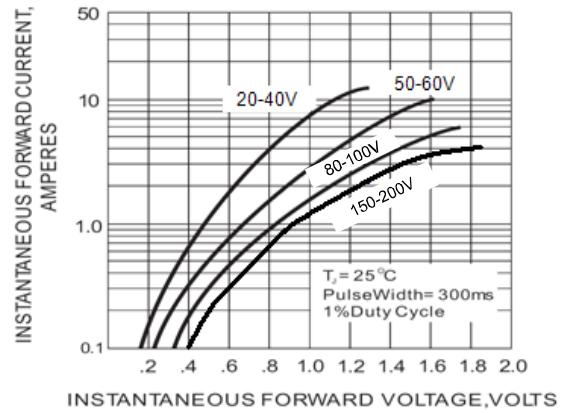


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

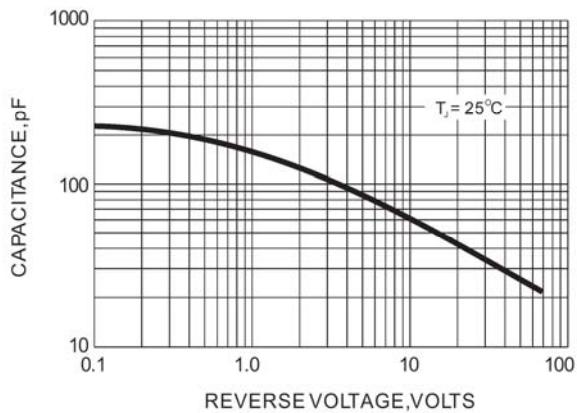


Fig.3-TYPICAL JUNCTION CAPACITANCE

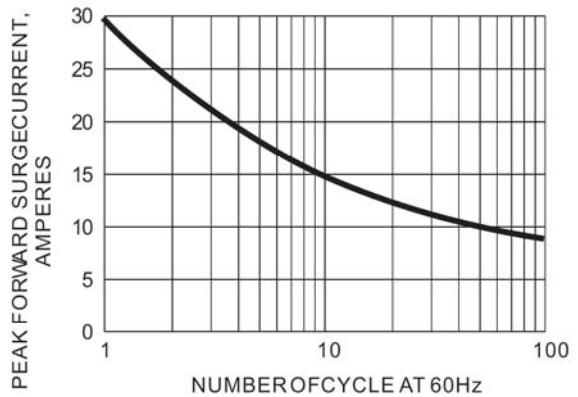


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT