

SS12 THRU S100

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: 20 to 100 VOLTS

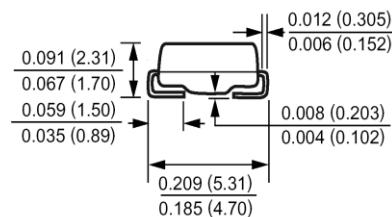
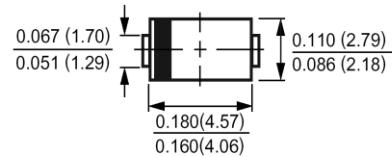
<http://www.njzrg.com>

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 : 260°C / 10 seconds at terminals

DO-214AC(SMA)



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° ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbol	SS12	SS13	SS14	SS15	SS16	SS18	SS19	S100	Units				
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	Volts				
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	Volts				
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	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	0.50		0.70		0.85		Volts						
Maximum Reverse Current at T_A=25° at Rated DC Blocking Voltage T_A=100°	I _R	0.5 20							mAmp					
Typical Thermal Resistance (Note 2)	R _{0JA}	88							/W					
	R _{0JL}	28												
Operating Junction Temperature Range	T _J	-55 to +125												
Storage Temperature Range	T _{stg}	-55 to +150												

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

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GROWCHILD
ELECTRONICS™

RATINGS AND CHARACTERISTIC CURVES

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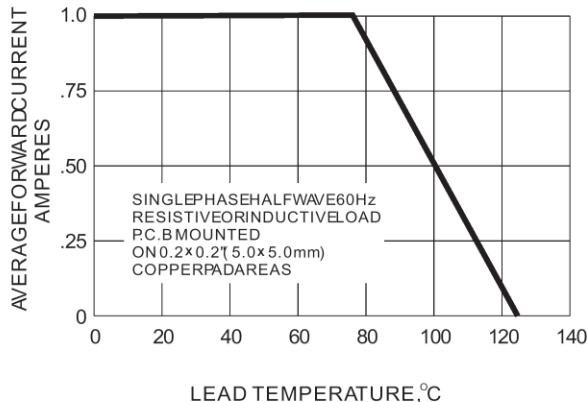


Fig.1-FORWARD CURRENT DERATING CURVE

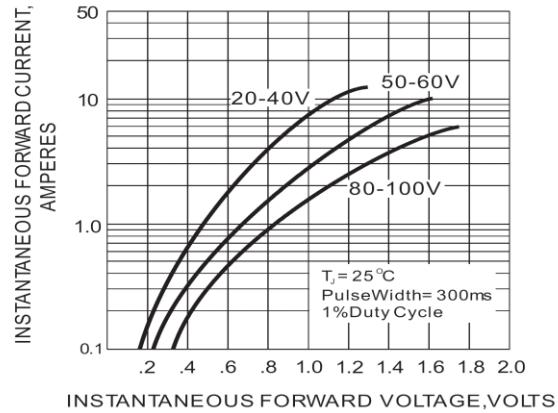


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

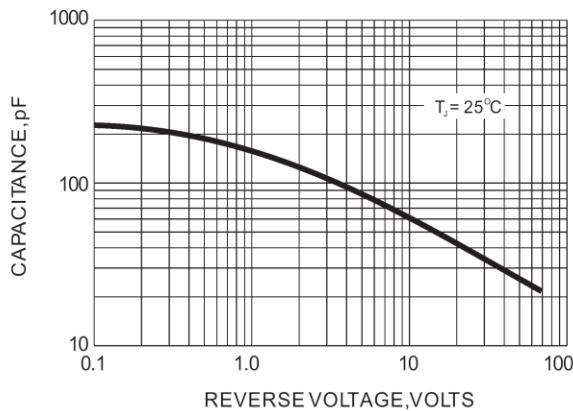


Fig.3-TYPICAL JUNCTION CAPACITANCE

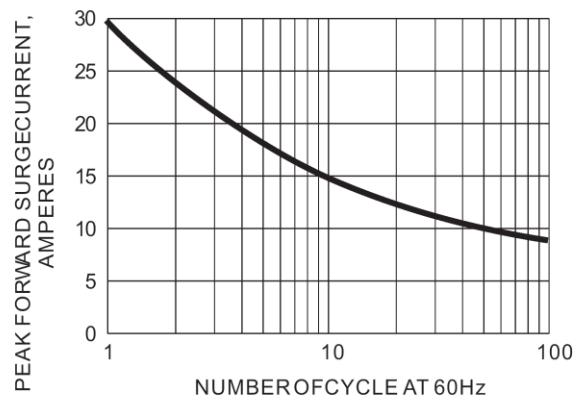


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT