

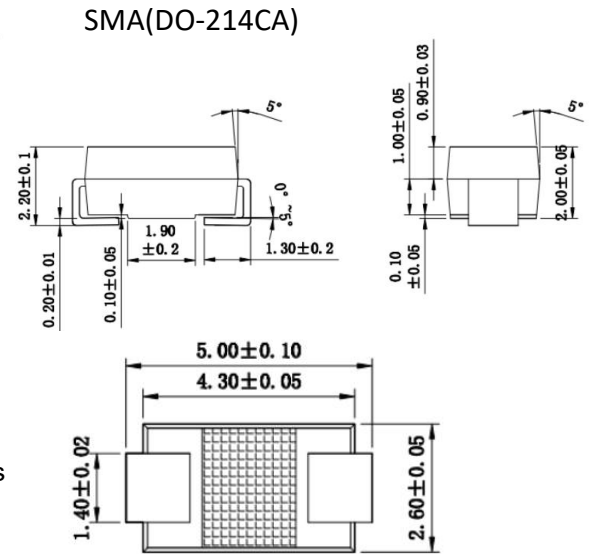
SS52A THRU SS520A

SCHOTTKY BARRIER RECTIFIERS



Features

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier.majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- High current capacity,low VF
- For use in low voltage high frequency inverters,free wheeling and polarity protection applications.
- High temperature soldering guaranteed:260°C/10 seconds at terminals



Dimensions in inches and (millimeters)

Mechanical Data

- Terminal: Plated leads, solderable per MIL-STD-750,Method 2026
- Case: molded plastic SMA(DO-214CA)
- Polarity: Color band denotes positives end(cathode)
- Standard packaging:12mm tape(EIA-481)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single Phase, half wave, 60Hz, resistive or inductive

Type Number	SYMBOL	SS52A	SS53A	SS54A	SS55A	SS56A	SS58A	SS510A	SS515A	SS520A	unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current .at TA =55°C	$I_{F(AV)}$	5									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	120									A
Maximum Forward Voltage at 1.5A DC	V_F	0.55			0.70		0.85		0.90		V
Maximum DC Reverse Current @TA =25°C At rated DC blocking voltage @TA=100°C	I_R	0.5									mA
		5									mA
Typical Junction Capacitance (Note1)	C_j	500			300						pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	60									°C /W
Storage Temperature	T_{STG}	-55 to +150									°C
Operation Junction Temperature	T_J	-55 to +125									°C

load. For capacitive load, derate current by 20%.

Note: 1. Pulse Test with PW=300µsec,2% Duty Cycle.

2. Mounted on P.C.Board with 5.0mm2(.013mm thick)copper pad areas.

Schottky rectifier

Fig. 1 Forward Current Derating Curve

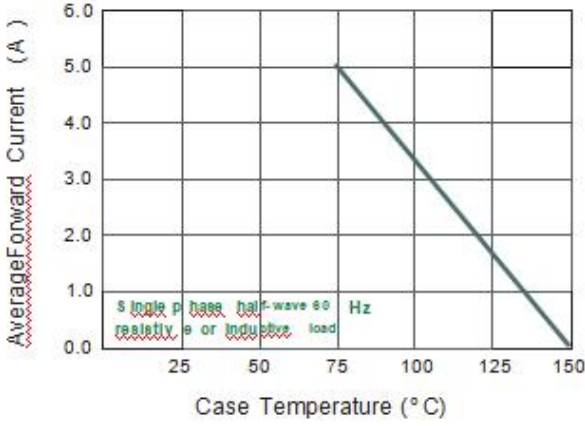


Fig. 2 Typical Reverse Characteristics

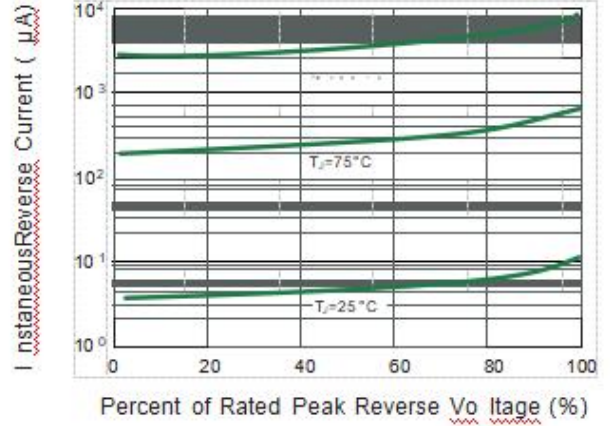


Fig. 3 Typical Forward Characteristics

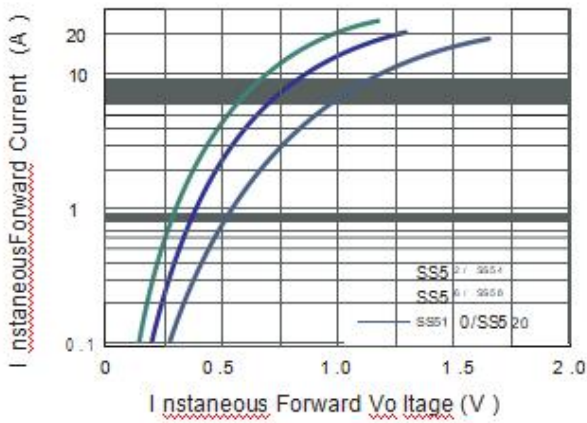


Fig. 4 Typical Junction Capacitance

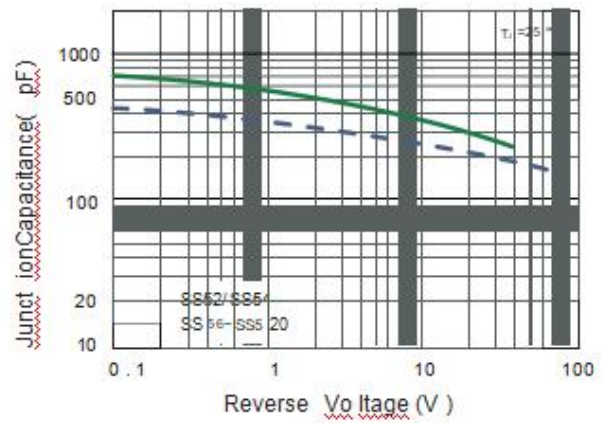


Fig. 5 Maximum Non-Repetitive Peak Forward Surge Current

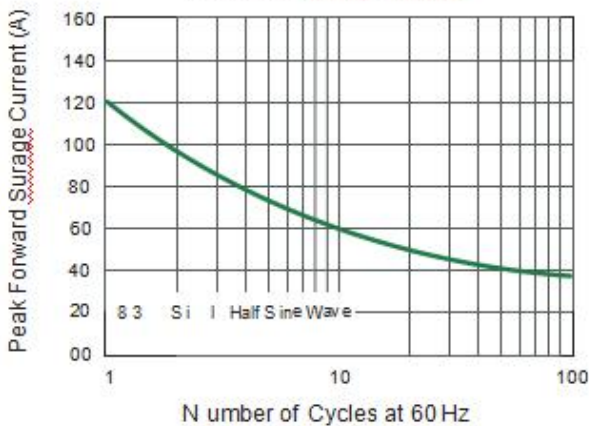


Fig. 6- Typical Transient Thermal Impedance

