

SS52 THRU SS520 SCHOTTKY BARRIERRECTIFIER

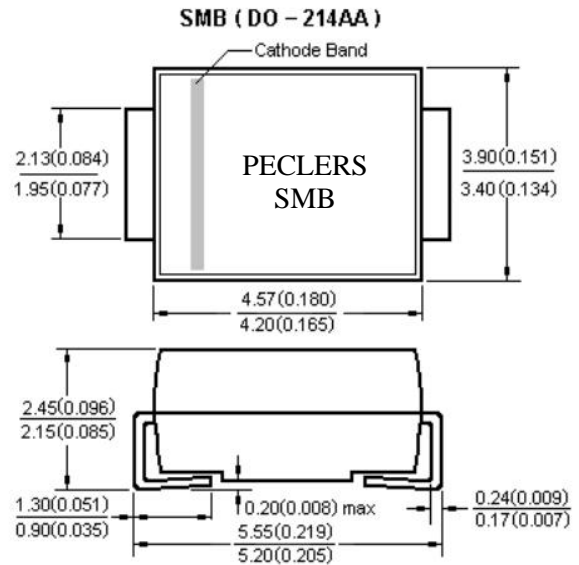
REVERSE VOLTAGE: 200 VOLTS
FORWARD CURRENT: 5 AMPERE

FEATURES

- Low switching noise
- Low forward voltage drop
- High current capability
- High switching capability
- High surge capability
- High reliability

MECHANICAL DATA

Case: Molded plastic, SMB/DO-201AA
Epoxy: UL 94V-O rate flame retardant
Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
Polarity: Color band denotes cathode end
Mounting position: Any
Weight: 0.0032ounce, 0.09gram



Dimensions in millimeters and (inches)

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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%.

PARAMETER	Symbols	SS52	SS53	SS54	SS55	SS56	SS58	SS59	SS510	SS515	SS520	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 Current	$I_{F(AV)}$	5.0										Amp
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100										Amp
Rating for fusing(t<8.3ms)	I^2t	41.5										A2 s
Maximum Forward Voltage at 5.0A	V_F	0.55		0.70		0.85		0.90		0.92		Volts
Maximum DC Reverse Current at Ta= 25°C	I_R	0.50										mAmp
Rated DC Blocking Voltage Ta=100°C		20.0										
Maximum Thermal Resistance	$R_{(JL)}$ $R_{(JA)}$	17.0 55.0										°C/W
Operating Junction Temperature Range	T_J	-55 to +150										°C
Storage Temperature Range	T_{stg}	-55 to +150										°C

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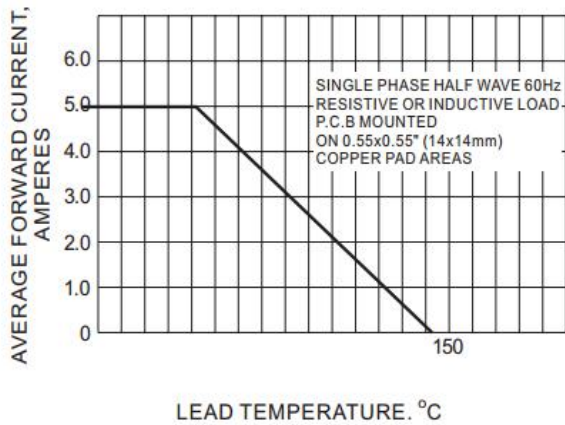


Fig.1- FORWARD CURRENT DERATING CURVE

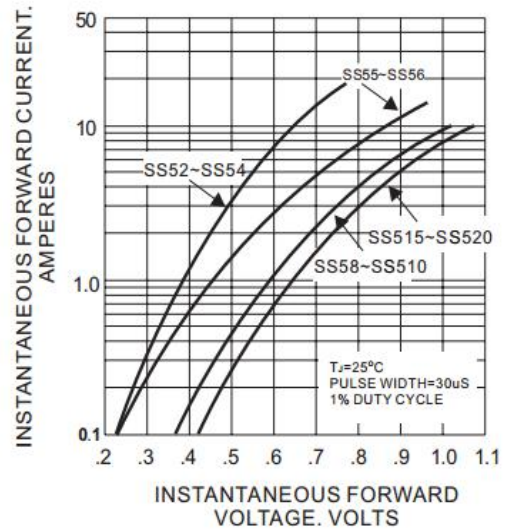


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

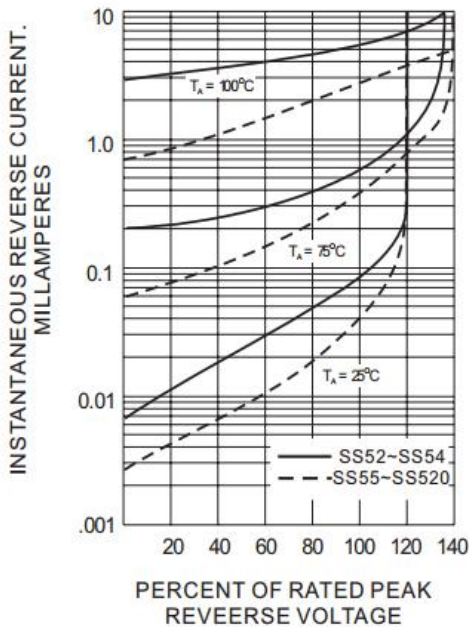


Fig.3- TYPICAL REVERSE CHARACTERISTICS

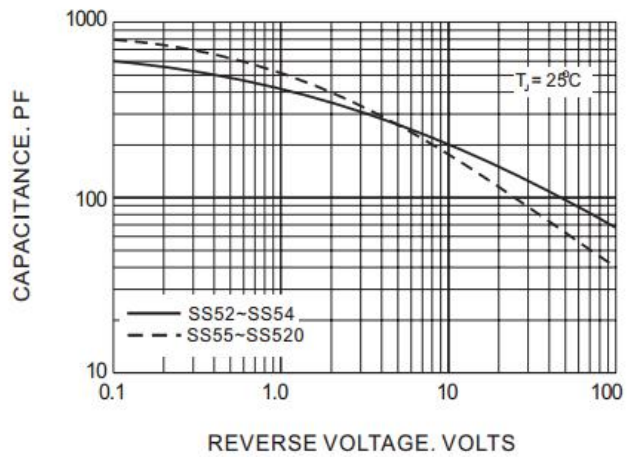


Fig.4- TYPICAL JUNCTION CAPACITANCE

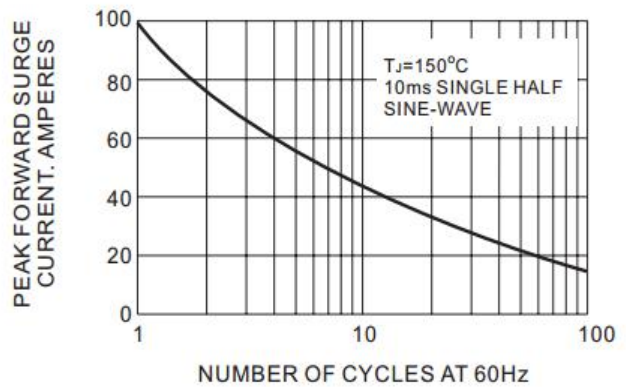


Fig.5- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT