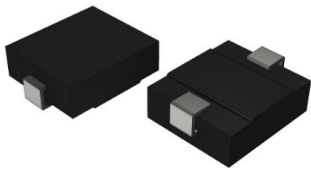

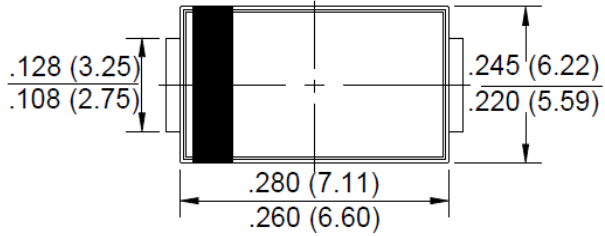
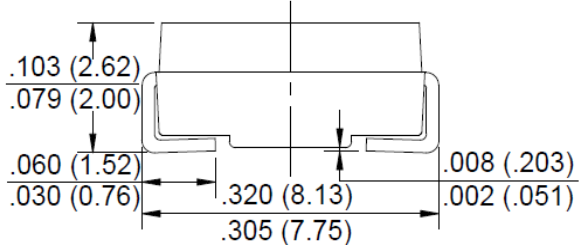


Surface Mount Schottky Barrier Rectifiers	Reverse Voltage - 20 to 100Volts Forward Current - 5.0 Amperes
<p><b>Features</b></p> <ul style="list-style-type: none"> <li>● Low power loss, high efficiency</li> <li>● For surface mounted applications</li> <li>● Low forward voltage drop</li> <li>● High surge capacity</li> <li>● Meet UL flammability classification 94V-0</li> </ul> <p><b>Mechanical Data</b></p> <ul style="list-style-type: none"> <li>● Case: JEDEC SMC molded plastic</li> <li>● Polarity: Color band denotes cathode</li> <li>● Mounting position: Any</li> </ul> <p><b>Applications</b></p> <ul style="list-style-type: none"> <li>● For use in low voltage, high frequency inverters, polarity protection applications</li> </ul>	<p style="text-align: center;"><b>SMC</b></p>  <div style="text-align: right;">  <p><b>RoHS</b> COMPLIANT</p> </div>   <p style="text-align: center;">Package Outline Dimensions in Inches (Millimeters)</p>

**Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	SS52	SS53	SS54	SS55	SS56	SS58	SS510	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current @T <sub>L</sub> =95 °C	I(AV)	5.0							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	150							A
Peak Forward Voltage at 5.0A DC (Note1)	V <sub>F</sub>	0.55		0.70		0.85		V	
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =100°C	I <sub>R</sub>	1.0				50			mA
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	500			350			pF	
Typical Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	80				°C/W			
Typical Thermal Resistance Junction to Lead	R <sub>θJL</sub>	17				°C/W			
Typical Thermal Resistance Junction to Case	R <sub>θJC</sub>	15				°C/W			
Junction Temperature Range	T <sub>J</sub>	-55 to+150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to+150							°C

Notes: 1. 300uS pulse width, 2%duty cycle.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3. The typical data above is for reference only .

Fig. 1 - Forward Current Derating Curve

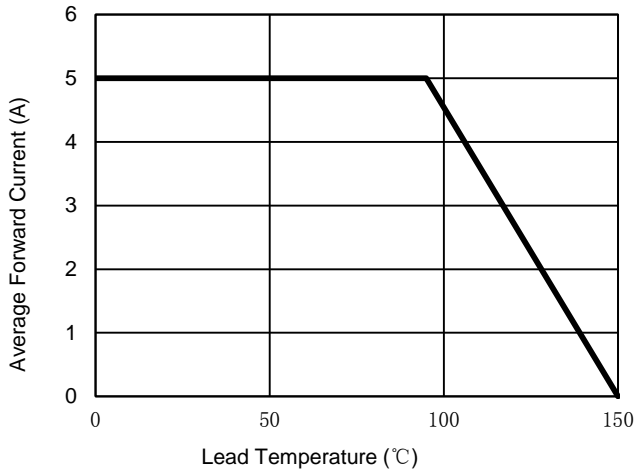


Fig. 2 - Maximum Non-Repetitive Surge Current

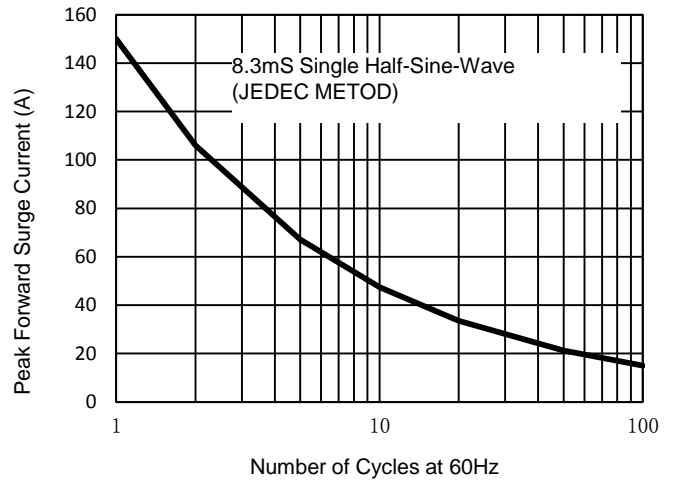


Fig. 3 - Typical Reverse Characteristics

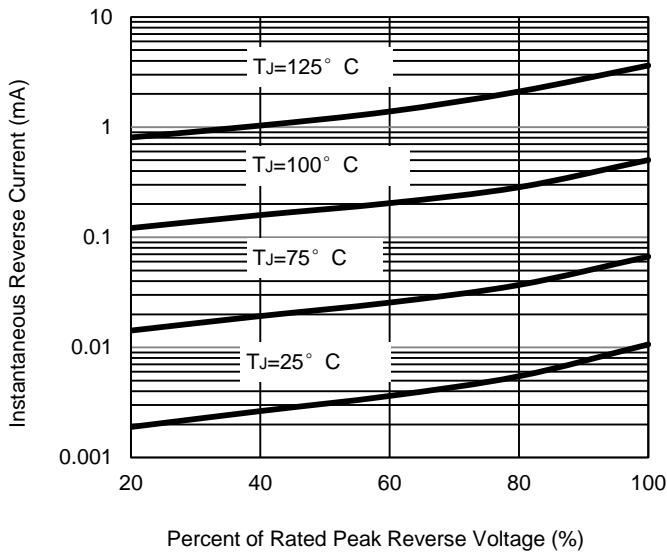


Fig. 4 - Typical Forward Characteristics

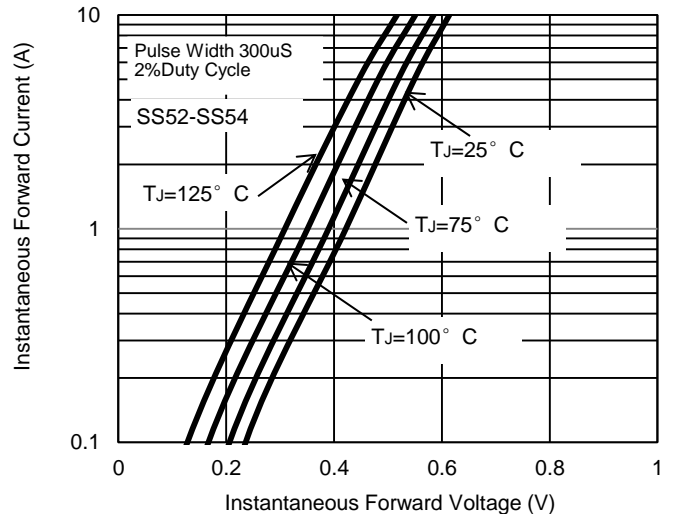


Fig. 5 - Typical Forward Characteristics

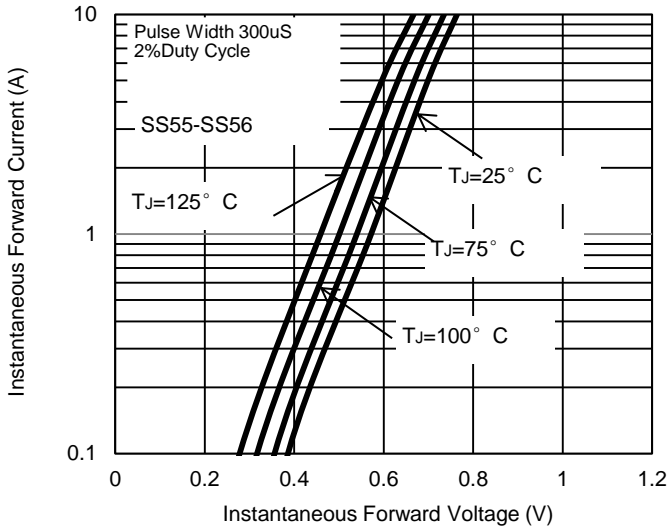
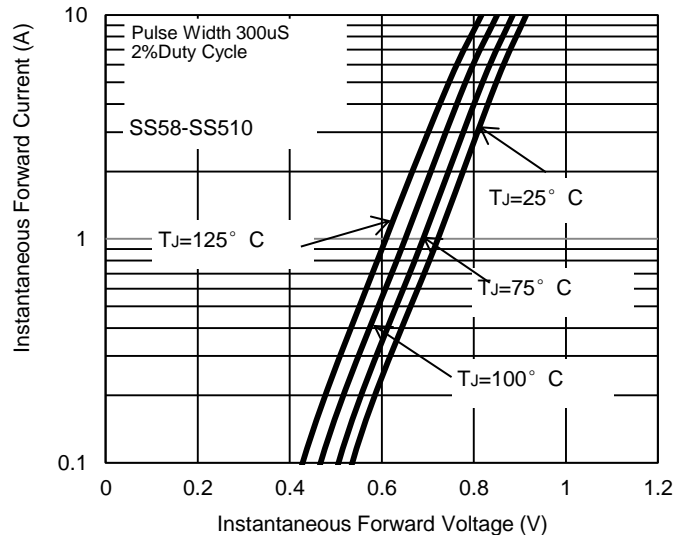


Fig. 6 - Typical Forward Characteristics



The curve above is for reference only.



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