
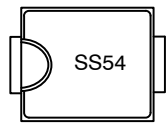
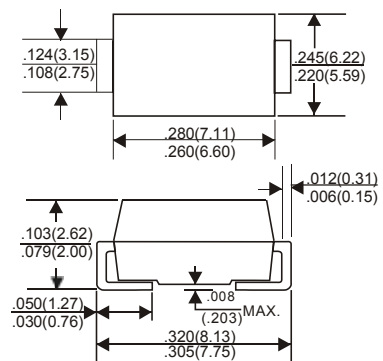


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

<div style="text-align: center; margin-bottom: 20px;">  </div> <h3>FEATURES</h3> <ul style="list-style-type: none"> * Ideal for surface mount applications * Easy pick and place * Built-in strain relief * Low forward voltage drop <h3>MECHANICAL DATA</h3> <ul style="list-style-type: none"> * Case: Molded plastic * Epoxy: UL 94V-0 rate flame retardant * Metallurgically bonded construction * Polarity: Color band denotes cathode end * Mounting position: Any * Weight: 0.21 grams 	<h3 style="text-align: center;">MARKING DIAGRAMS</h3> <div style="text-align: center; margin: 10px 0;">  </div> <h3 style="text-align: center;">DO-214AB(SMC)</h3> <div style="text-align: center; margin: 10px 0;">  </div> <p style="text-align: center; font-size: small;">Dimensions in inches and (millimeters)</p>																																										
<h2 style="text-align: center;">MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</h2> <p style="font-size: small;">Rating 25 °C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="text-align: left;">TYPE NUMBER</th> <th style="text-align: center;">SS54</th> <th style="text-align: center;">UNITS</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">Maximum Recurrent Peak Reverse Voltage</td> <td>40</td> <td>V</td> </tr> <tr> <td style="text-align: left;">Maximum RMS Voltage</td> <td>28</td> <td>V</td> </tr> <tr> <td style="text-align: left;">Maximum DC Blocking Voltage</td> <td>40</td> <td>V</td> </tr> <tr> <td style="text-align: left;">Maximum Average Forward Rectified Current</td> <td></td> <td></td> </tr> <tr> <td style="text-align: left;">See Fig. 1</td> <td>5.0</td> <td>A</td> </tr> <tr> <td style="text-align: left;">Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)</td> <td>120</td> <td>A</td> </tr> <tr> <td style="text-align: left;">Maximum Instantaneous Forward Voltage at 5.0A</td> <td>0.46</td> <td>V</td> </tr> <tr> <td style="text-align: left;">Maximum DC Reverse Current Ta=25 C</td> <td>1.0</td> <td>mA</td> </tr> <tr> <td style="text-align: left;">at Rated DC Blocking Voltage Ta=100°C</td> <td>50</td> <td>mA</td> </tr> <tr> <td style="text-align: left;">Typical Junction Capacitance (Note1)</td> <td>380</td> <td>pF</td> </tr> <tr> <td style="text-align: left;">Typical Thermal Resistance R JA (Note 2)</td> <td>55</td> <td>C/W</td> </tr> <tr> <td style="text-align: left;">Operating Temperature Range Tj</td> <td>-55—+125</td> <td>°C</td> </tr> <tr> <td style="text-align: left;">Storage Temperature Range Tstg</td> <td>-55—+150</td> <td>C</td> </tr> </tbody> </table> <p>NOTES:</p> <ol style="list-style-type: none"> 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2. unit mounted on PC board with 5.0mm×5.0 mm (0.013 mm thick) copper pads as heat sink 		TYPE NUMBER	SS54	UNITS	Maximum Recurrent Peak Reverse Voltage	40	V	Maximum RMS Voltage	28	V	Maximum DC Blocking Voltage	40	V	Maximum Average Forward Rectified Current			See Fig. 1	5.0	A	Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	120	A	Maximum Instantaneous Forward Voltage at 5.0A	0.46	V	Maximum DC Reverse Current Ta=25 C	1.0	mA	at Rated DC Blocking Voltage Ta=100°C	50	mA	Typical Junction Capacitance (Note1)	380	pF	Typical Thermal Resistance R JA (Note 2)	55	C/W	Operating Temperature Range Tj	-55—+125	°C	Storage Temperature Range Tstg	-55—+150	C
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RATING AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

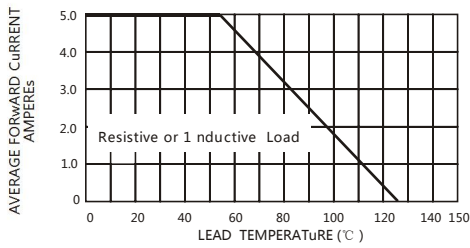


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

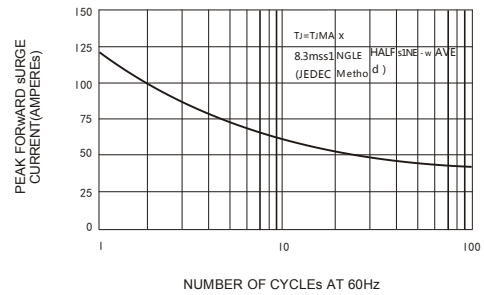


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

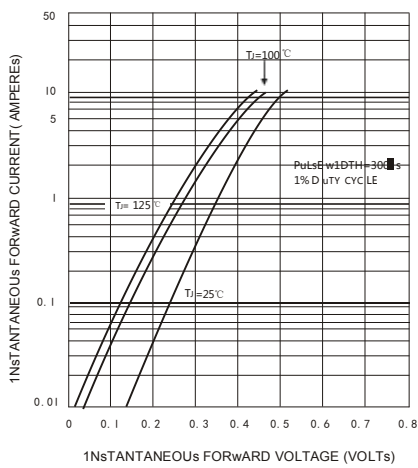


FIG.4-TYPICAL REVERSE CHARACTERISTICS

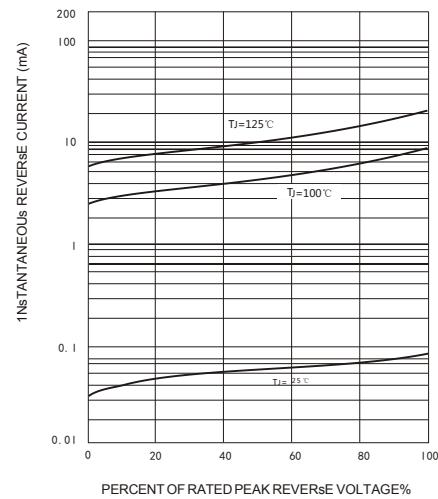
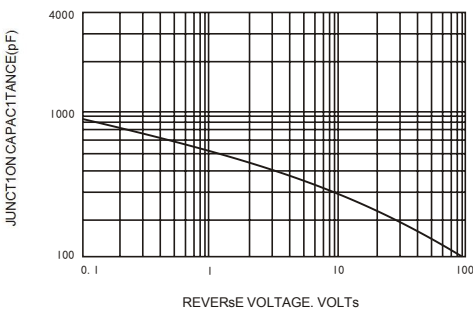


FIG.5-TYPICAL JUNCTION CAPACITANCE



ORDERING INFORMATION

Device	Package	Shipping†
SS54	SMC (Pb-Free)	3000 / Tape & Reel

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[NRVB130LSFT1G](#) [CRS08TE85LQM](#) [PMAD1108-LF](#) [B120Q-13-F](#) [1N5819T-G](#) [B0530WSQ-7-F](#)