




## 5.0 Amp. Surface Mount Schottky Barrier Rectifier

<b>DO-214AB / SMC</b>  	<b>Voltage</b> 20 V to 150 V	<b>Current</b> 5.0 A
<b>FEATURES</b> <ul style="list-style-type: none"> <li>Low profile package</li> <li>Ideal for automated placement</li> <li>Low power losses, high efficiency</li> <li>High surge current capability</li> <li>Guarding for overvoltage protection</li> <li>Low forward voltage drop</li> <li>Solder dip 260°C, 10s</li> <li>Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC</li> <li>Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C</li> </ul>		
  <b>RoHS COMPLIANT</b>		
<b>MECHANICAL DATA</b> <ul style="list-style-type: none"> <li><b>Case:</b> DO-214AB (SMC). Epoxy meets UL 94V-0 flammability rating.</li> <li><b>Polarity:</b> Color band denotes cathode end.</li> <li><b>Terminals:</b> Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test</li> </ul>		
<b>TYPICAL APPLICATIONS</b> Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.		

### Maximum Ratings and Electrical Characteristics at 25 °C

		SK 52C	SK 54C	SK 56C	SK 510C	SK 515C
<b>Marking Code</b>		<b>IO</b>	<b>IP</b>	<b>IQ</b>	<b>IR</b>	<b>IS</b>
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	20	40	60	100	150
$V_{RMS}$	Maximum RMS Voltage (V)	14	28	42	70	105
$V_{DC}$	Maximum DC Blocking Voltage (V)	20	40	60	100	150
$I_{F(AV)}$	Maximum Average Forward Rectified Current at $T_C$ (See graphic)	5.0 A				
$I_{FSM}$	8.3 ms. Peak Forward Surge Current (Jedec Method)	120 A				
$T_j$	Operating Temperature Range	-55°C to +150°C				
$T_{stg}$	Storage Temperature Range	-55°C to +150°C				

### Electrical Characteristics at $T_{amb} = 25\text{ °C}$

$V_F$	Maximum Instantaneous Forward Voltage $I_F = 5.0\text{ A}$ (Note 1)	0.55 V	0.75 V	0.85 V	0.95 V
$I_R$	Maximum D.C. Reverse Current @ $T_j = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_j = 125\text{ °C}$ (Note 3)	0.5 mA		0.3 mA	
		20 mA	10.0 mA	5.0 mA	
$R_{thj-c}$ $R_{thj-a}$	Typical Thermal Resistance (Note 2)	17 °C/W 50 °C/W			

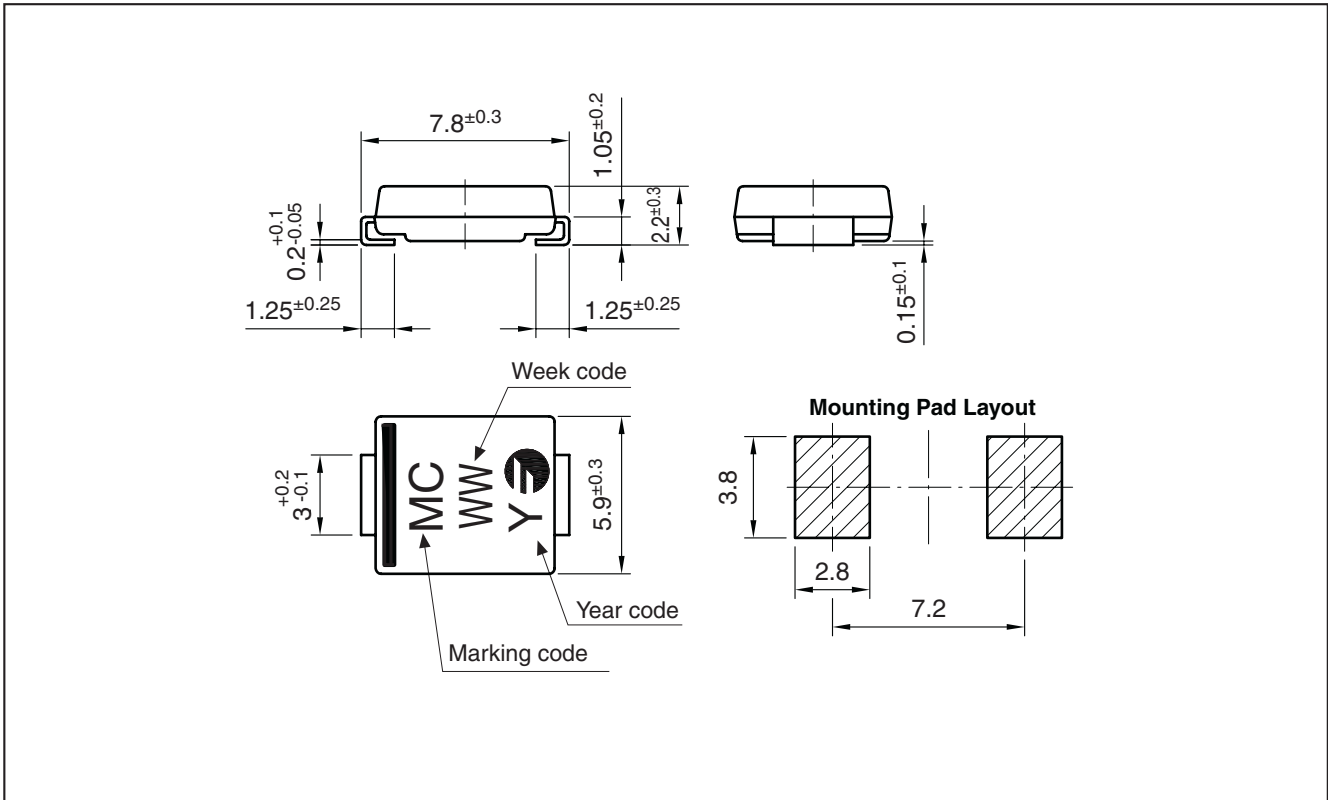
Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle  
 2. Thermal Resistance from Junction to Case per diode  
 3. Pulse test: Pulse width ≤ 40ms

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**Ordering information**

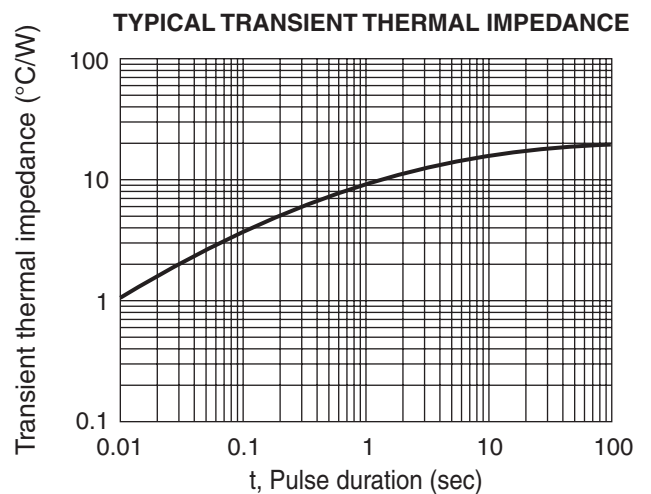
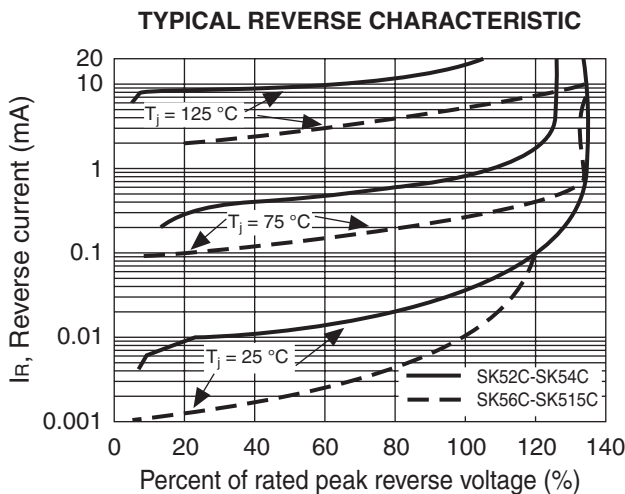
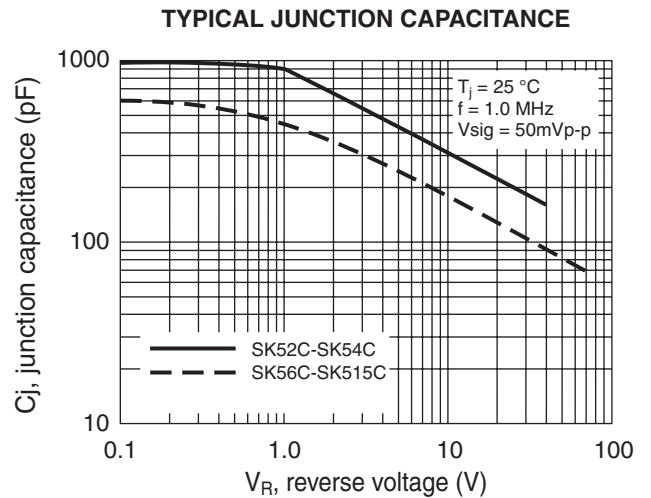
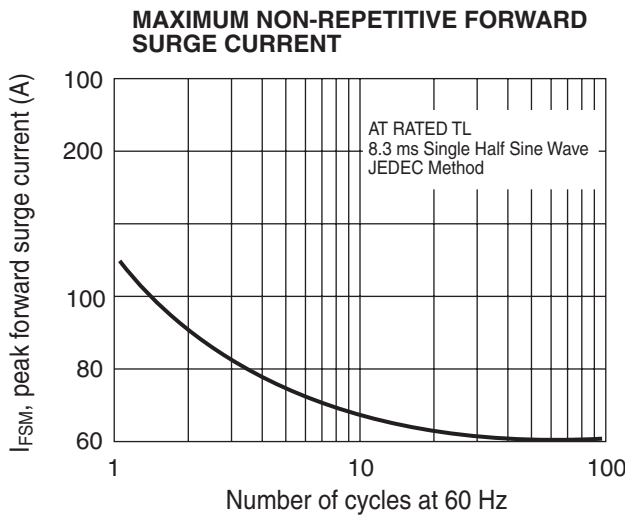
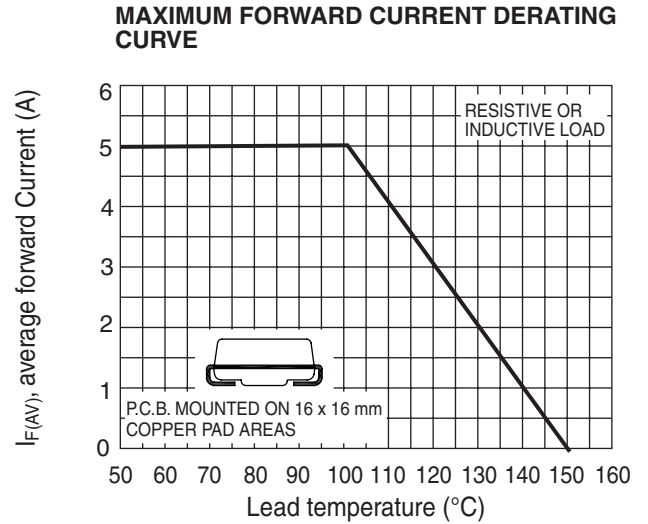
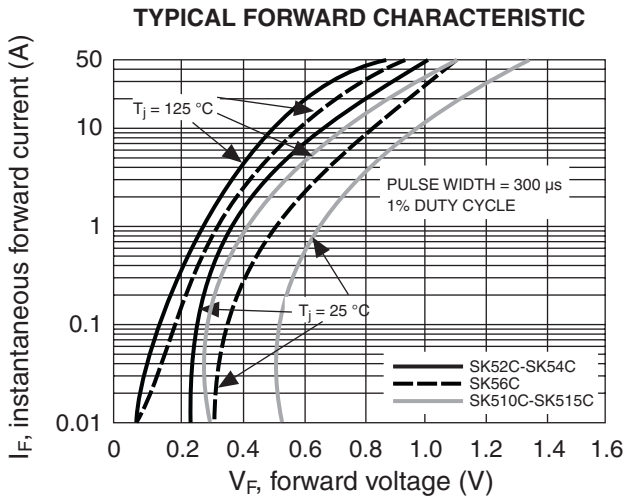
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SK56C TRTB	TRTB	13" diameter tape and reel	3,000	0.210
SK56C TRTS	TRTS	7" diameter tape and reel	850	0.210

**Package Outline Dimensions: (mm) DO-214AB / SMC**



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**Ratings and Characteristics (Ta 25 °C unless otherwise noted)**



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