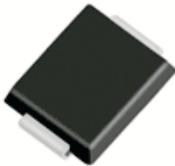


5.0 Amp. Surface Mount Schottky Barrier Rectifier

DO-214AB / SMC 	Voltage 20 V to 150 V	Current 5.0 A	
	FEATURES <ul style="list-style-type: none"> • Low profile package • Ideal for automated placement • Low power losses, high efficiency • High surge current capability • Guarding for overvoltage protection • Low forward voltage drop • Solder dip 260°C, 10s • Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 		  RoHS COMPLIANT
	MECHANICAL DATA <ul style="list-style-type: none"> • Case: DO-214AB (SMC). Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end. • Terminals: 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 		
	TYPICAL APPLICATIONS 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
Marking Code		IO	IP	IQ	IR	IS
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			

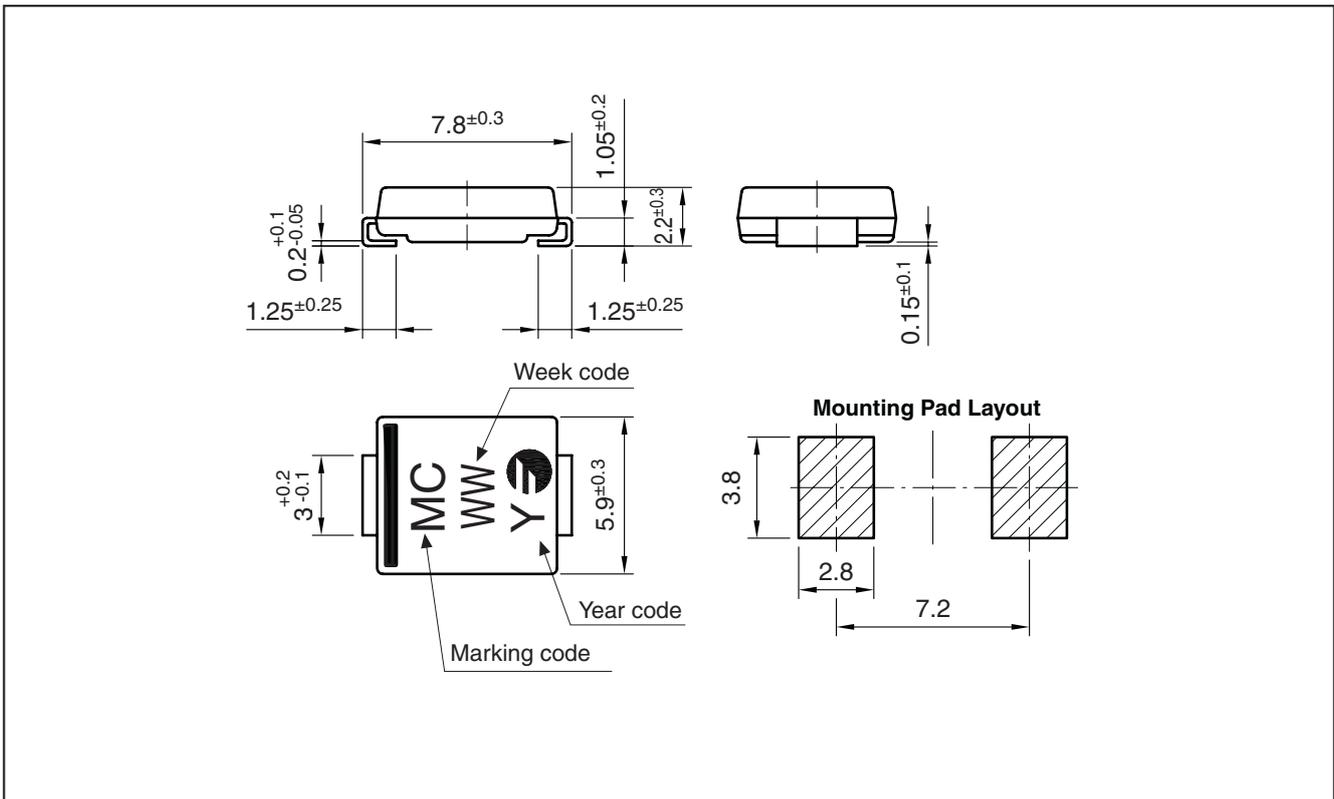
Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle
 2. Thermal Resistance from Junction to Case per diode
 3. Pulse test: Pulse width ≤ 40ms

5.0 Amp. Surface Mount Schottky Barrier Rectifier

Ordering information

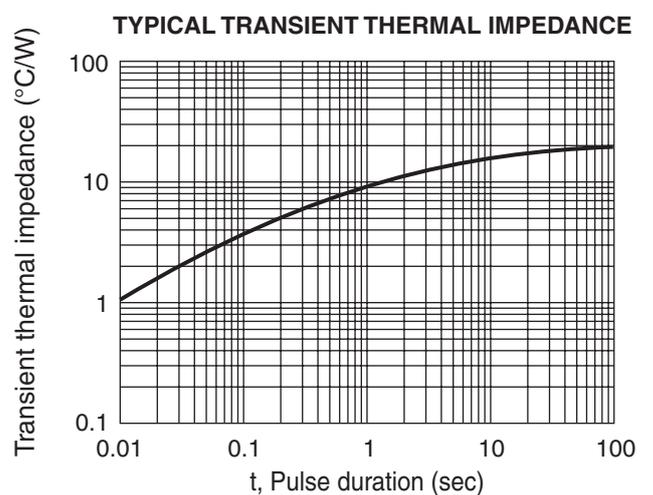
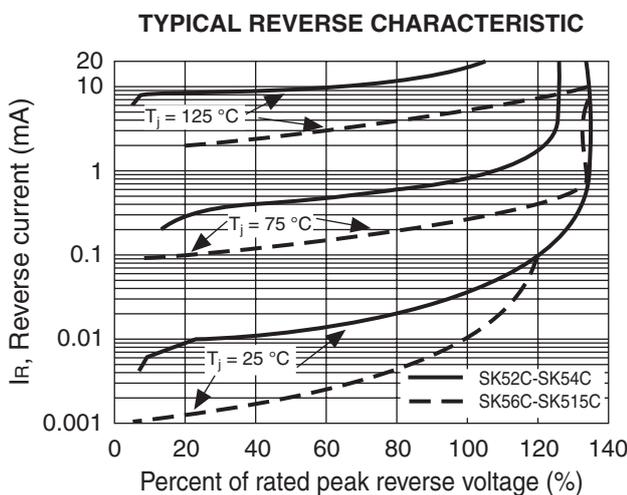
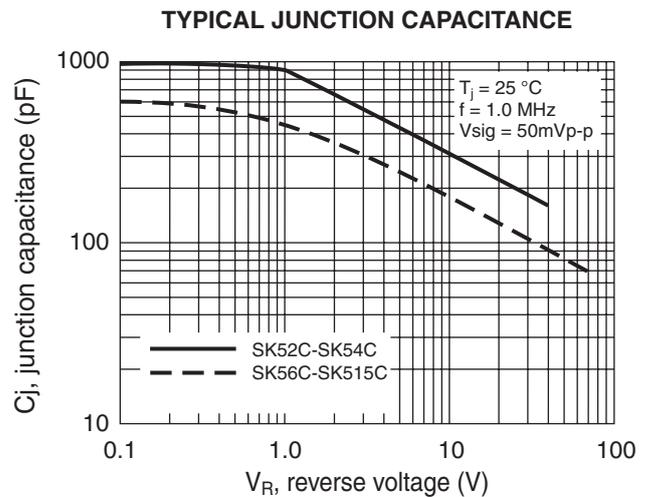
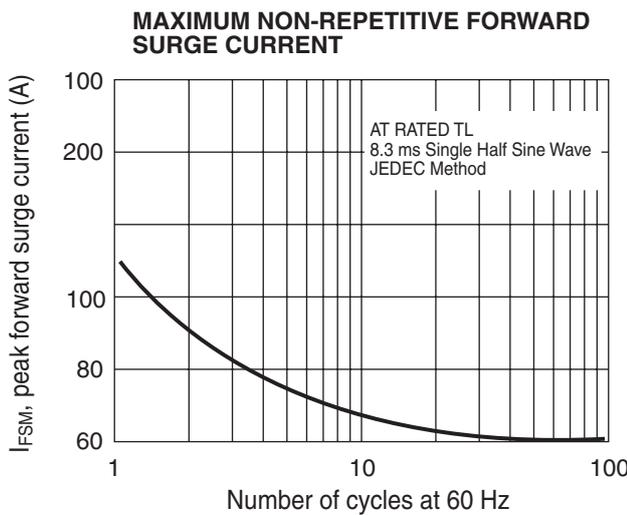
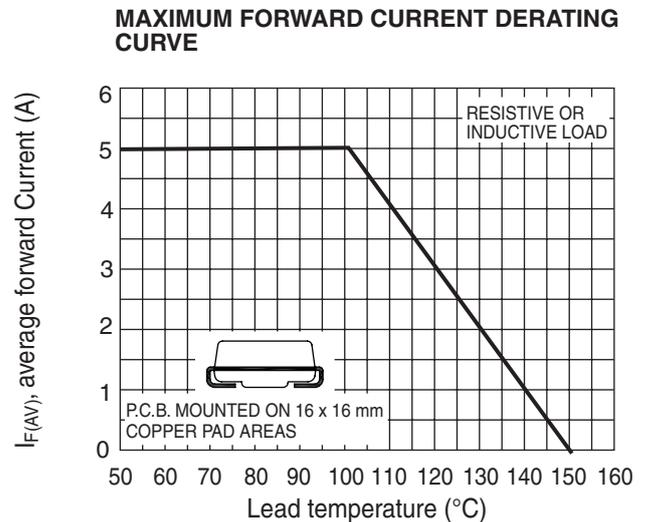
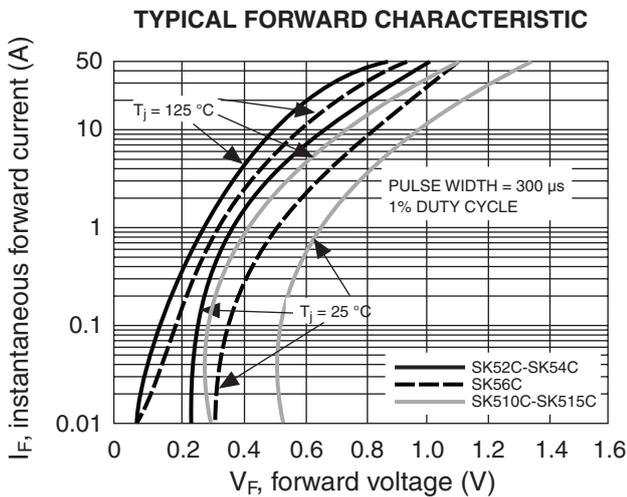
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SK56C TRTB	TRTB	13" diameter tape and reel	3,000	0.210
SK56C TRTS	TRTS	7" diameter tape and reel	850	0.210

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



5.0 Amp. Surface Mount Schottky Barrier Rectifier

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



5.0 Amp. Surface Mount Schottky Barrier Rectifier

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