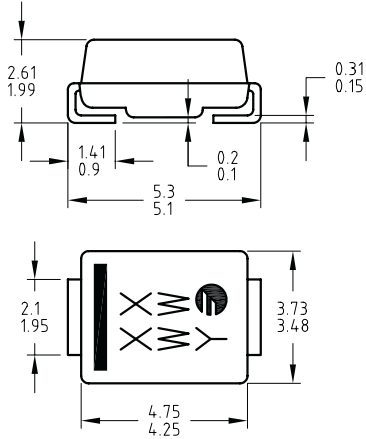


3 Amp. Surface Mount Schottky Barrier Rectifiers

 RoHS COMPLIANCE CASE: SMB/DO-214AA  XX = Marking code WW = Week code Y = Year code Dimensions in mm.	Voltage 20 V to 150 V Current 3.0 A • For surface mounted application • Easy pick and place • Metal to silicon rectifier, majority carrier conduction • Low power loss, high efficiency • High current capability. low VF • High surge current capability • Plastic material used carriers Underwriters Laboratory Classification 94V-0 • Epitaxial construction • High temperature soldering: 260 °C / 10 seconds at terminals MECHANICAL DATA Case: Molded plastic Terminals: Pure tin plated, lead free Polarity: Indicated by cathode band Packaging: 16 mm tape EIA-STD RS-481. Weight: 0.1 g.
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Maximum Ratings and Electrical Characteristics at 25 °C

		SK 32B	SK 34B	SK 36B	SK 310B	SK 315B
	Marking code	IF	IG	IH	IJ	IK
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)}	Forward Current at T _L (See graphic)	3.0 A				
I _{FSM}	8.3 ms.Peak Forward Surge Current (Jedec Method)	70 A				
T _j	Operating Temperature Range	-55°C to +125°C		-55°C to +150°C		
T _{stg}	Storage Temperature Range	-55°C to +150°C				

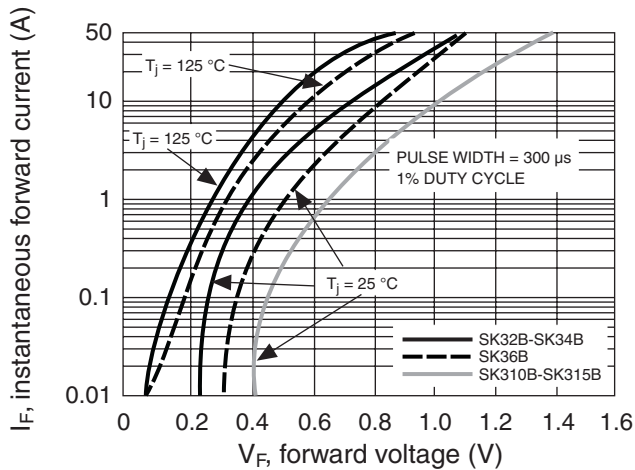
Electrical Characteristics at $T_{amb} = 25\text{ °C}$

V _F	Maximum Instantaneous Forward Voltage @ 3.0 A	0.5 V	0.75 V	0.85 V	0.95 V
I _R	Maximum DC Reverse Current (Note 1) T _A = 25 °C at Rated DC Blocking Voltage T _A =125°C	0.5 mA		0.1 mA	
		10 mA	5.0 mA	2.0 mA	
R _{thj-l} R _{thj-a}	Typical Thermal Resistance (Note 2)	17 °C/W 75 °C/W			

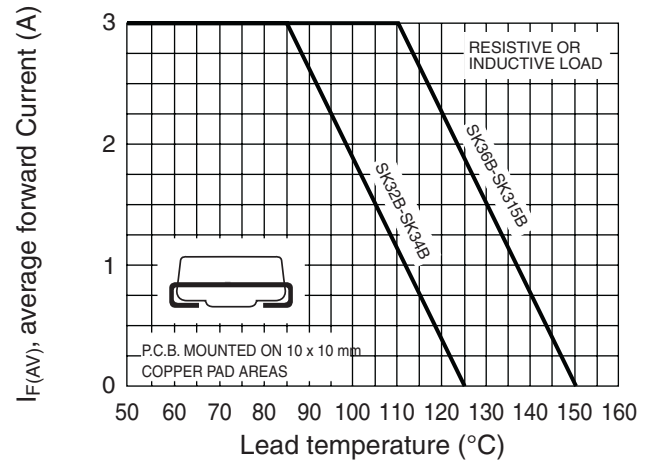
NOTES: 1. Pulse Test With PW = 300 µsec, 1% Duty Cycle
2. Measured on P.C. Board with 10mm x 10mm Copper Pad Areas.

Rating And Characteristic Curves

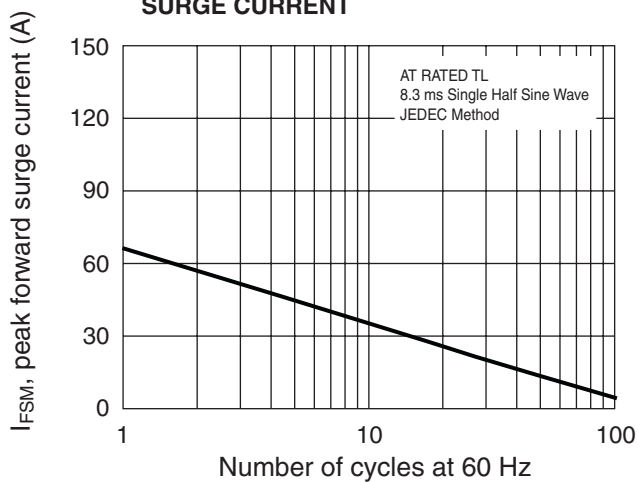
TYPICAL FORWARD CHARACTERISTIC



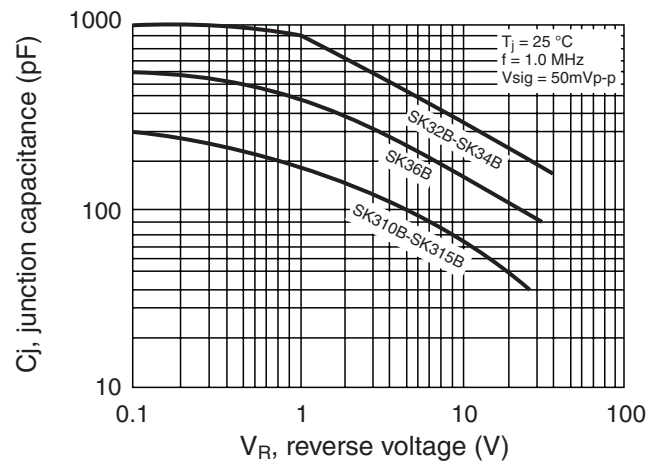
MAXIMUM FORWARD CURRENT DERATING CURVE



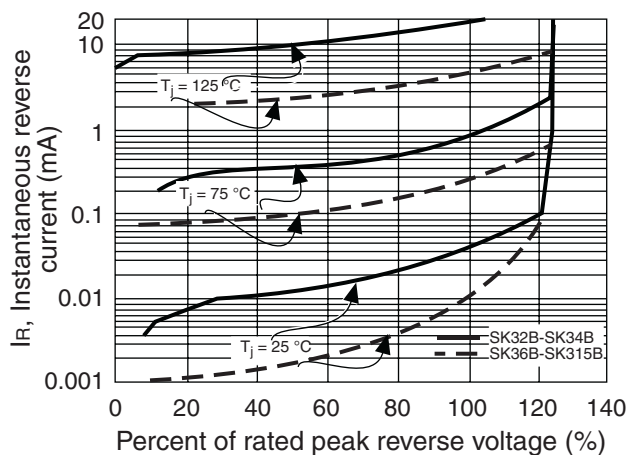
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTIC



TYPICAL TRANSIENT THERMAL CHARACTERISTIC

