

2.0 Amp. Surface Mount Schottky Barrier Rectifiers

<p>RoHS COMPLIANCE</p> <p>CASE: SMA/DO-214AC</p> <p>XX = Marking code WW = Week code Y = Year code</p> <p>Dimensions in mm.</p>	<p>Voltage 40 V to 150 V</p>	<p>Current 2.0 A</p>
	<ul style="list-style-type: none"> • For surface mounted application • Metal to silicon rectifier, majority carrier conduction • Low forward voltage drop • Easy pick and place • High surge current capability • Plastic material used carriers Underwriters Laboratory Classification 94V-0 • Epitaxial construction • High temperature soldering: 260 °C / 10 seconds at terminals 	
<p>MECHANICAL DATA</p> <p>Case: Molded plastic Terminals: Pure tin plated, lead free. Polarity: Indicated by cathode band Packaging: 12 mm tape per EIA-STD RS-481. Weight: 0.093 gram</p>		

Maximum Ratings and Electrical Characteristics at 25 °C

		SK 24A	SK 26A	SK 210A	SK 215A
Marking code		IL	II	IY	IZ
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	40	60	100	150
V_{RMS}	Maximum RMS Voltage (V)	28	42	70	105
V_{DC}	Maximum DC Blocking Voltage (V)	40	60	100	150
$I_{F(AV)}$	Maximum Average Forward Rectified Current at T_L (See graphic)	2.0 A			
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	50 A			
T_j	Operating Temperature Range	-65°C to +125°C		-65°C to +150°C	
T_{stg}	Storage Temperature Range	-65°C to +150°C			

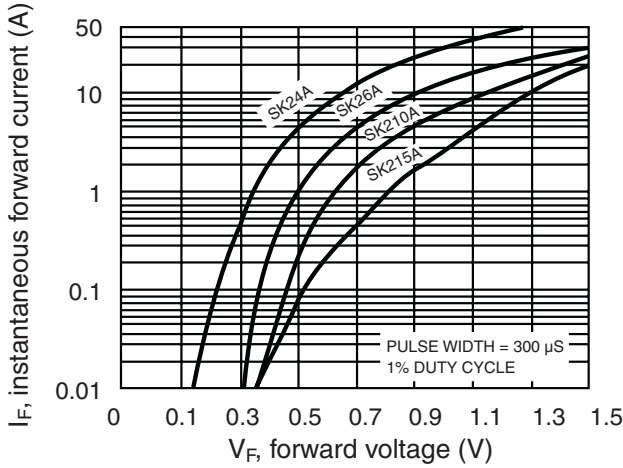
Electrical Characteristics at $T_{amb} = 25\text{ °C}$

V_F	Maximum Instantaneous Forward Voltage @ 2.0 A	0.5 V	0.7 V	0.85 V	0.95 V
I_R	Maximum DC Reverse Current (Note 1) $T_A = 25\text{ °C}$	0.5 mA		0.1 mA	
	at Rated DC Blocking Voltage $T_A = 125\text{ °C}$	10 mA	5.0 mA	2.0 mA	
R_{thj-a}	Typical Thermal Resistance (Note 2)	88 °C/W			

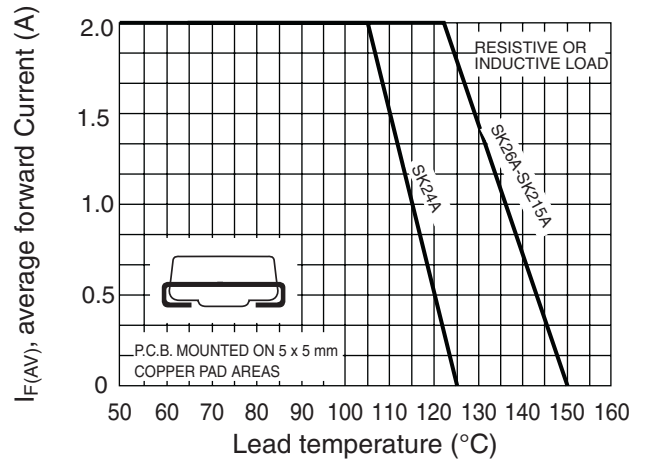
NOTES: 1. Pulse Test With PW = 300 μ sec, 1% Duty Cycle
2. Measured on P.C. Board with 5mm x 5mm Copper Pad Areas.

Rating And Characteristic Curves

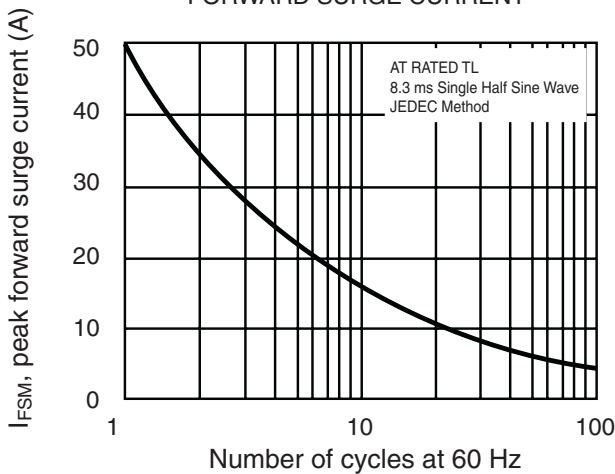
TYPICAL FORWARD CHARACTERISTIC



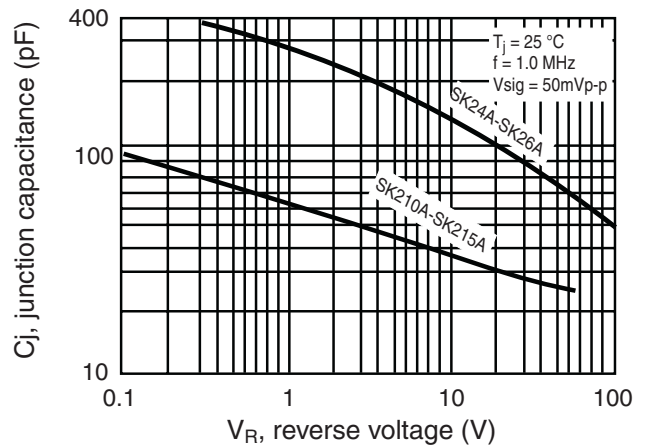
MAXIMUM FORWARD CURRENT DERATING CURVE



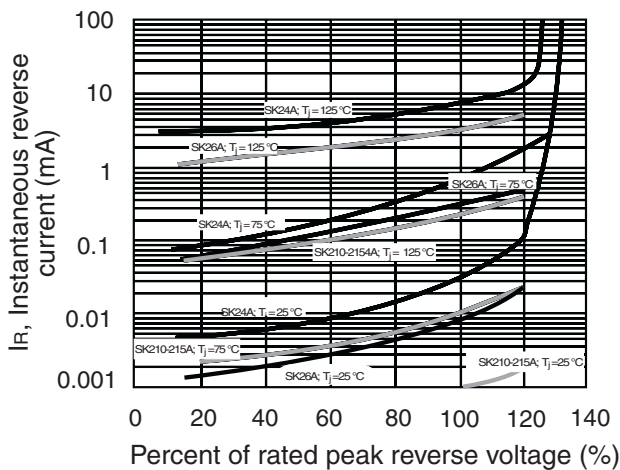
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTICS



TYPICAL TRANSIENT THERMAL CHARACTERISTICS

