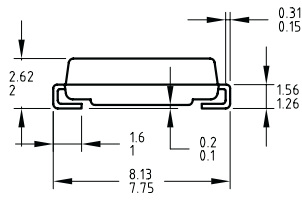
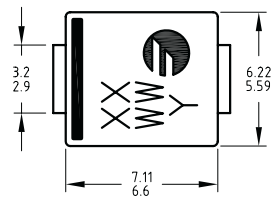


3 Amp. Surface Mount Schottky Barrier Rectifiers

 RoHS COMPLIANCE CASE: SMC/DO-214AB   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: JEDEC DO-214AB Molded plastic Terminals: Pure tin plated, lead free Polarity: Indicated by cathode band Packaging: 16 mm tape EIA-STD RS-481. Weight: 0.21 g.
---	--

Maximum Ratings and Electrical Characteristics at 25 °C

		FSS 32	FSS 33	FSS 34	FSS 35	FSS 36	FSS 39	FSS 310	FSS 315
	Marking code	C1	C2	C3	C4	C5	C6	C7	C8
V _{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	20	30	40	50	60	90	100	150
V _{RMS}	Maximum RMS Voltage (V)	14	21	28	35	42	63	70	105
V _{DC}	Maximum DC Blocking Voltage (V)	20	30	40	50	60	90	100	150
I _{F(AV)}	Maximum Average Forward Rectified Current at T _L (See graphic)	3.0 A							
I _{FSM}	8.3 ms.Peak Forward Surge Current (Jedec Method)	100 A			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 Tamb = 25 °C

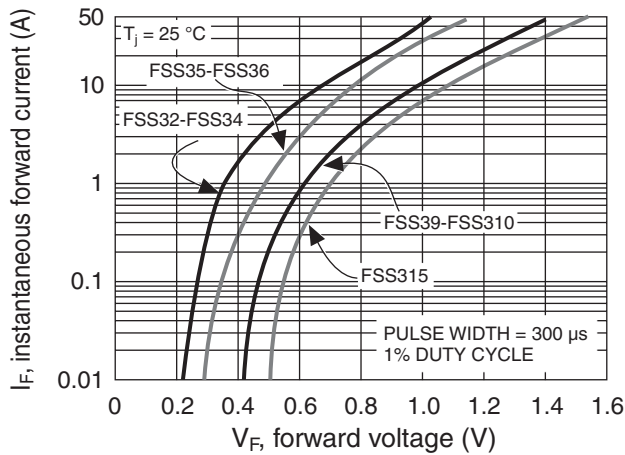
V _F	Maximum Instantaneous Forward Voltage (Note 1) I _F = 3.0 A @ 25 °C @ 100 °C	0.5 V 0.4 V	0.75 V 0.65 V	0.85 V 0.70 V	0.95 V 0.80 V
I _R	Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125°C	0.5 mA		0.1 mA	
		10 mA	5.0 mA	0.5 mA	
C _j	Typical Junction Capacitance (Note 3)	600 pF	290 pF	200 pF	
R _{th (j-l)} R _{th (j-a)}	Typical Thermal Resistance (Note 2)	17 °C/W 55 °C/W			

NOTES:

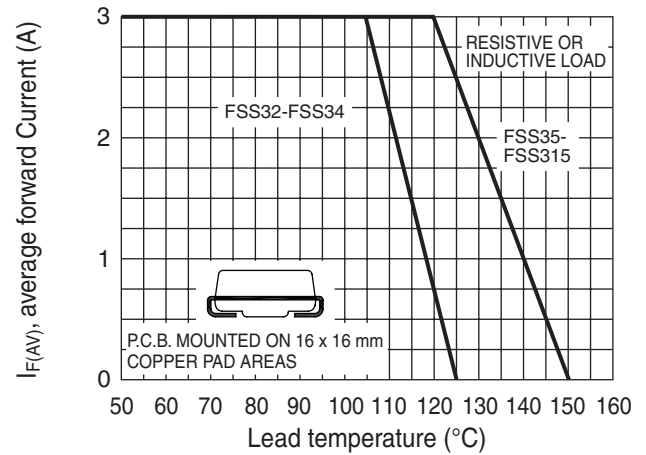
1. Pulse Test With PW = 300 μsec, 1% Duty Cycle
2. Measured on P.C. Board with 16mm x16mm Copper Pad Areas
3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

Rating And Characteristic Curves

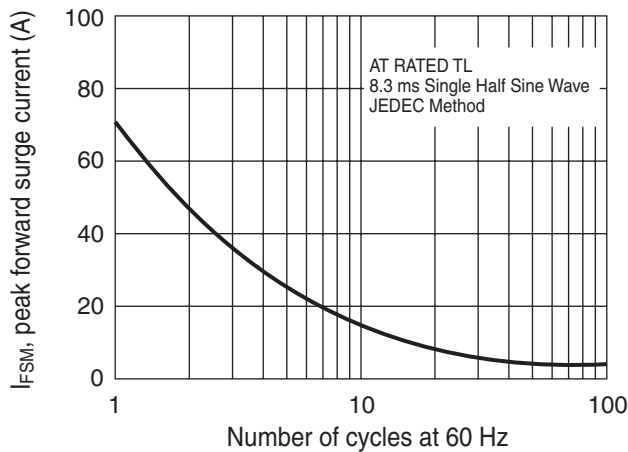
TYPICAL FORWARD CHARACTERISTIC



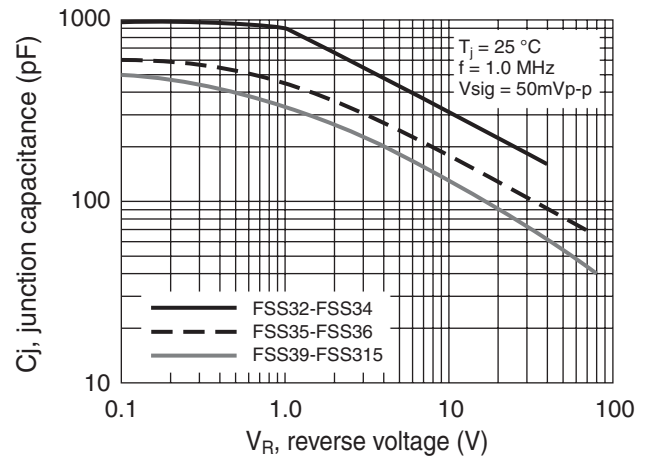
MAXIMUM FORWARD CURRENT DERATING CURVE



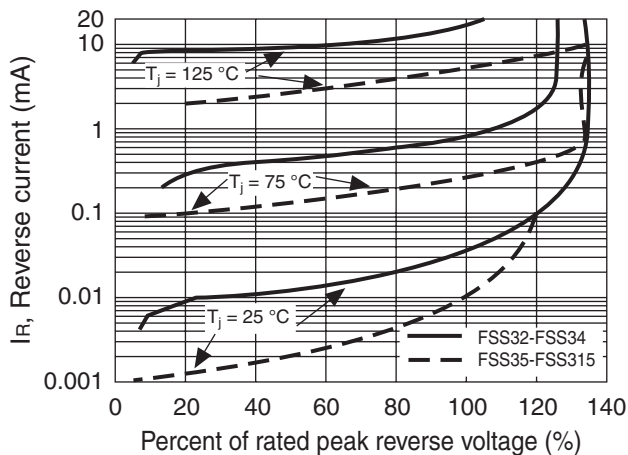
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTIC



TYPICAL TRANSIENT THERMAL CHARACTERISTIC

