



FSS32 FSS36

3 Amp. Surface Mounted Schottky Barrier Rectifier

Dimensions in mm.	CASE: SMC/DO-214AB (Plastic)	Voltage 20 V to 60 V	Current 3.0 A
		• Metal Silicon Junction, majority carrier conduction • High current capability, low forward voltage drop • Guardring for overvoltage protection • Low power loss, high efficiency • High surge capability • Plastic material carries U/L recognition 94VO • Low profile package • Easy pick and place	

Maximum Ratings, according to IEC publication No. 134

		FSS32	FSS33	FSS34	FSS35	FSS36
Marking Code		C1	C2	C3	C4	C5
V _{RRM}	Peak recurrent reverse voltage (V)	20	30	40	50	60
V _{RMS}	Maximum RMS voltage (V)	14	21	28	35	42
V _{DC}	Maximum DC blocking voltage (V)	20	30	40	50	60
I _{F (AV)}	Maximum average Forward current.	3 A				
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	100 A				
T _j	Operating temperature range	− 65 to + 125 °C			− 65 to + 150 °C	
T _{stg}	Storage temperature range	− 65 to + 150 °C				

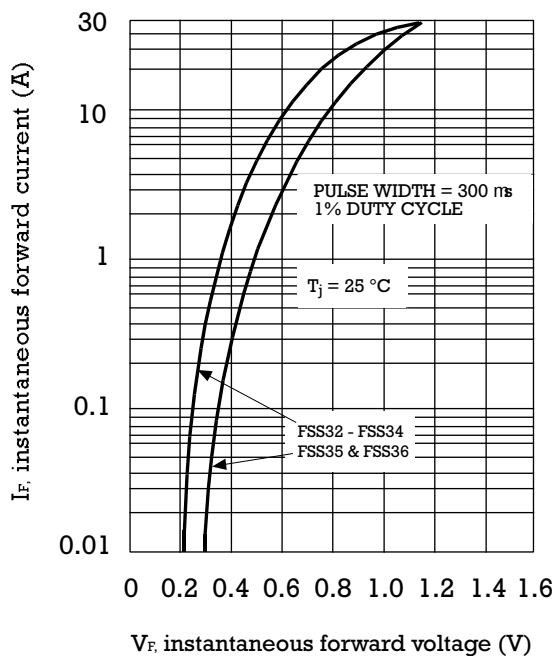
Electrical Characteristics at Tamb = 25 °C

V_F	Max. forward voltage drop at $I_F = 3.0 A$ ⁽¹⁾	0.55 V	0.75 V
I_R	Max. Instantaneous reverse current at V_{RRM} ⁽¹⁾ $T_a = 25 °C$ $T_a = 100 °C$	0.5 mA	
		20 mA	10 mA
R_{thj-a} R_{thj-l}	Typical Thermal Resistance	55 °C/W 17 °C/W	

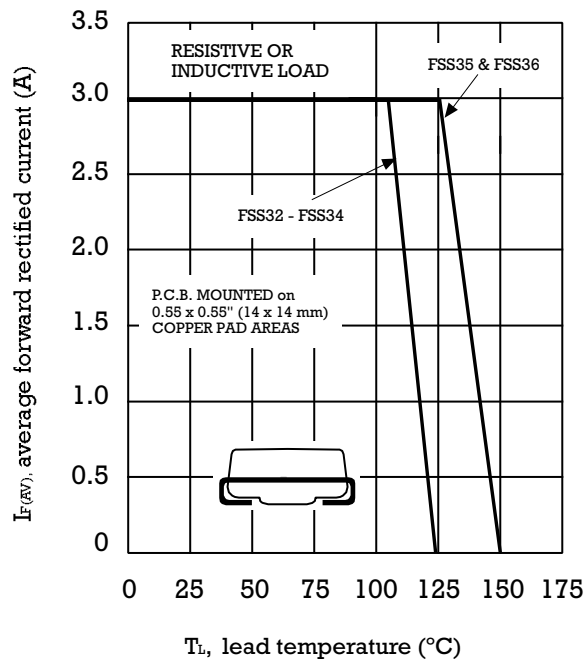
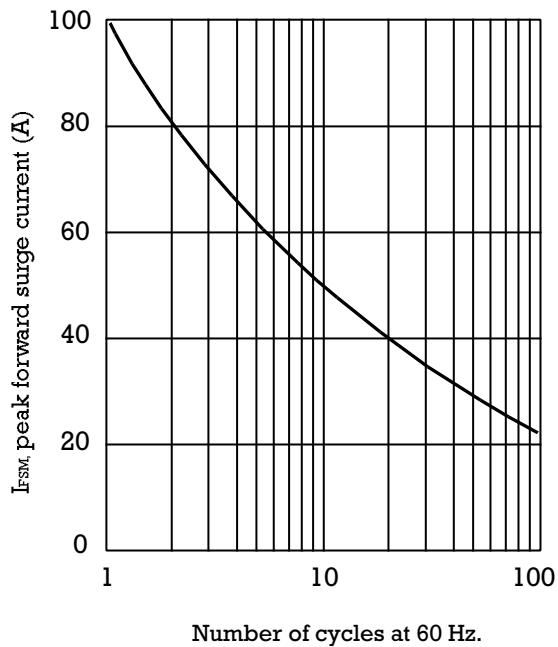
NOTE: Thermal Resistance from junction to lead or to ambient PCB mounted with 14x14 mm copper pads areas.

(1) Pulse test: 300μs pulse width, 1% duty cycle.

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE


MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT


TYPICAL JUNCTION CAPACITANCE

