

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
<ul style="list-style-type: none"> • 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 94V0 • 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				

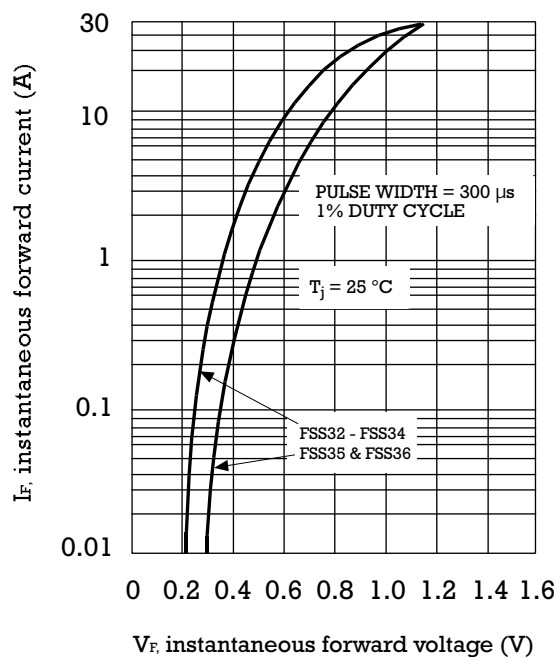
Electrical Characteristics at $T_{amb} = 25\text{ °C}$

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

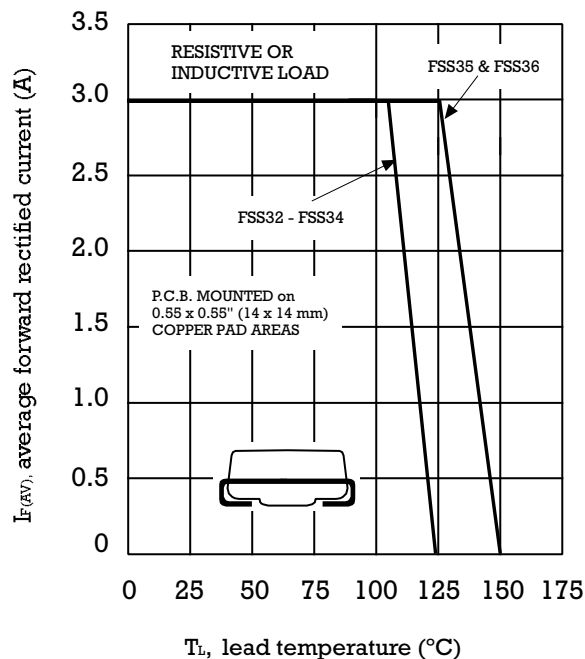
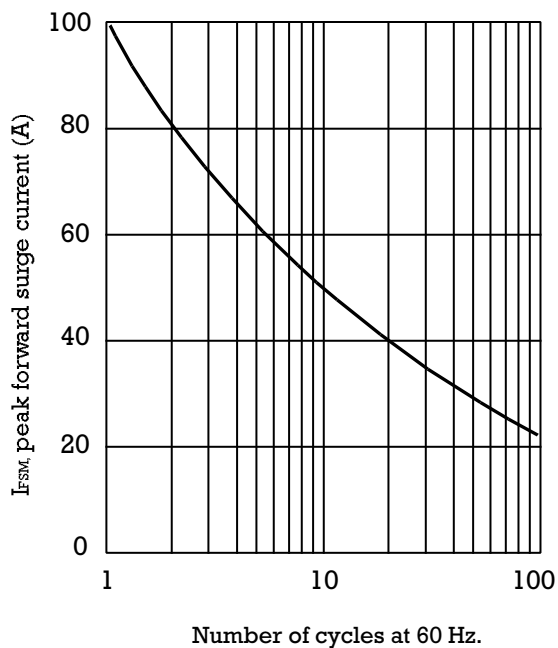
NOTE: Thermal Resistance from junction to lead or to ambient PCB mounted with 14x14 mm copper pads areas.

(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

