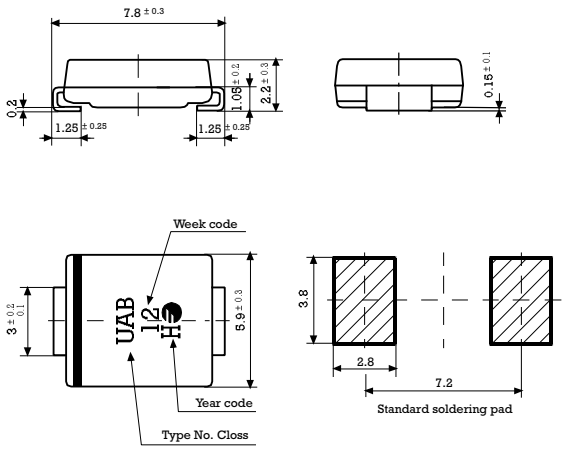
3 Amp. Surface Mounted Schottky Barrier Rectifier

Dimensions in mm.

CASE:
SMC/DO-214AB
(Plastic)



Voltage	Current
20 V to 60 V	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 94V-O
- 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				

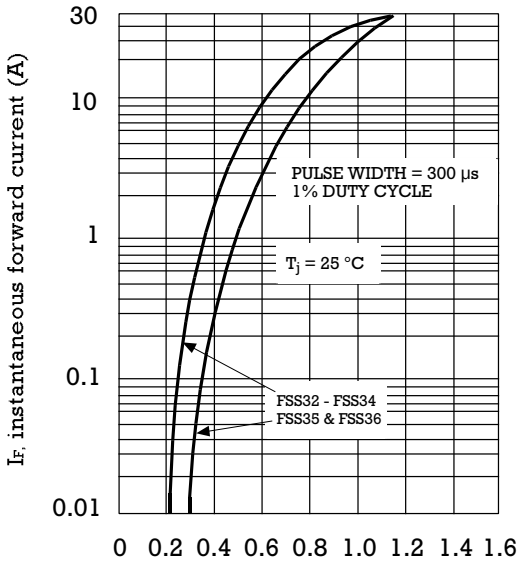
Electrical Characteristics at Tamb = 25 °C

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)	Ta = 25 °C	0.5 mA	
		Ta = 100 °C	20 mA	10 mA
$R_{thj\text{-}a}$ $R_{thj\text{-}l}$	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.

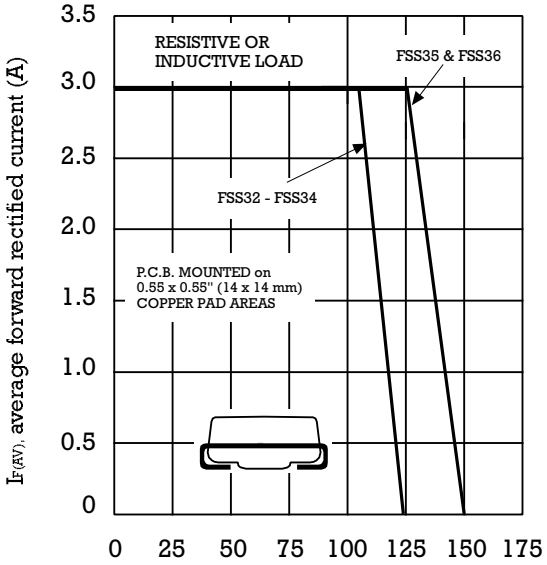
(1) Pulse test: 300µs pulse width, 1% duty cycle.

TYPICAL FORWARD CHARACTERISTIC



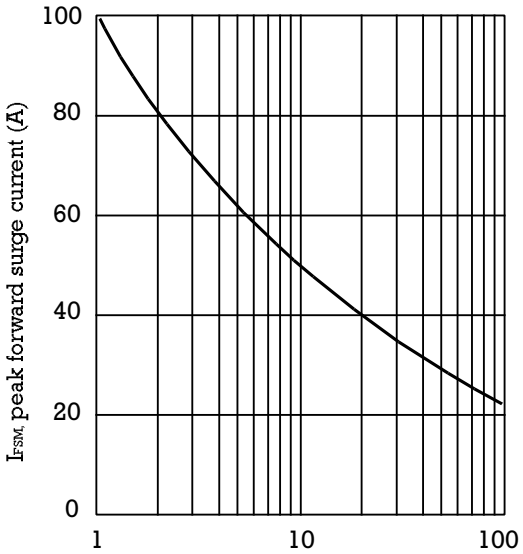
VF, instantaneous forward voltage (V)

FORWARD CURRENT DERATING CURVE



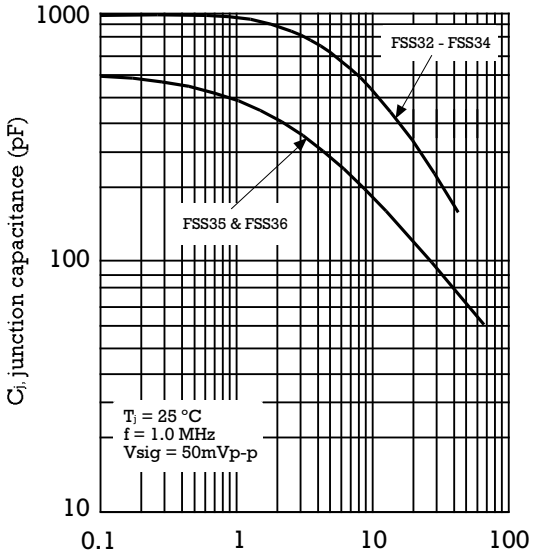
TL, lead temperature (°C)

MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT



Number of cycles at 60 Hz.

TYPICAL JUNCTION CAPACITANCE



VR, reverse voltage (V)