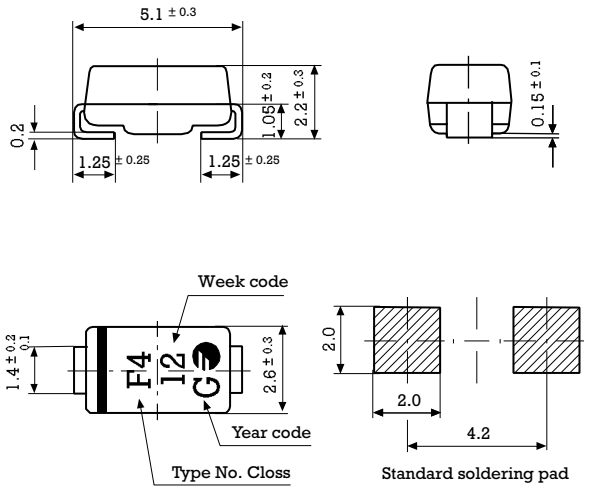
1 Amp. Surface Mounted Schottky Barrier Rectifier

Dimensions in mm.

CASE:
SMA/DO-214AC
(Plastic)



Voltage	Current
20 V to 60 V	1.0 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

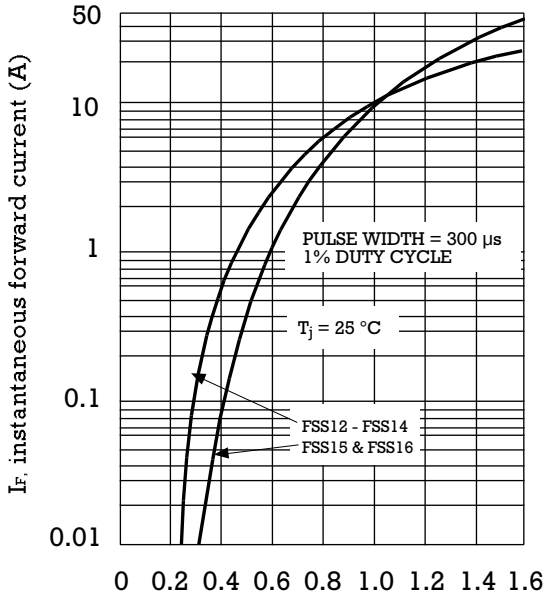
		FSS12	FSS13	FSS14	FSS15	FSS16
	Marking Code	A1	A2	A3	A4	A5
V_{RRM}	Peak recurrent reverse voltage (V)	20	30	40	50	60
V_{RMS}	Maximum RMS voltage (V)	14	21	28	35	42
V_{DC}	Maximum DC blocking voltage (V)	20	30	40	50	60
$I_{F(AV)}$	Maximum average Forward current.	1 A				
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	40 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

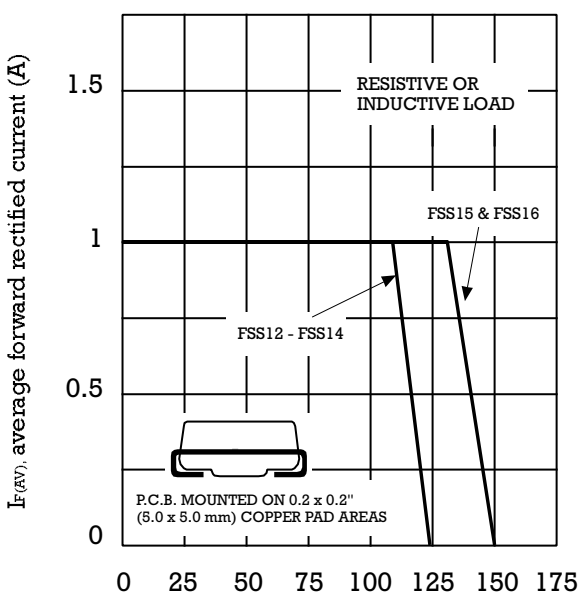
V_F	Max. forward voltage drop at I_F = 1.0 A		0.55 V	0.75 V
I_R	Max. Instantaneous reverse current at V_{RRM}	Ta = 25 °C	0.5 mA	
		Ta = 100 °C	10 mA	5 mA
R_{thj-a} R_{thj-l}	Typical Thermal Resistance		88 °C/W 28 °C/W	

NOTE: Thermal Resistance from junction to lead or to ambient PCB mounted with 5x5 mm copper pads areas.

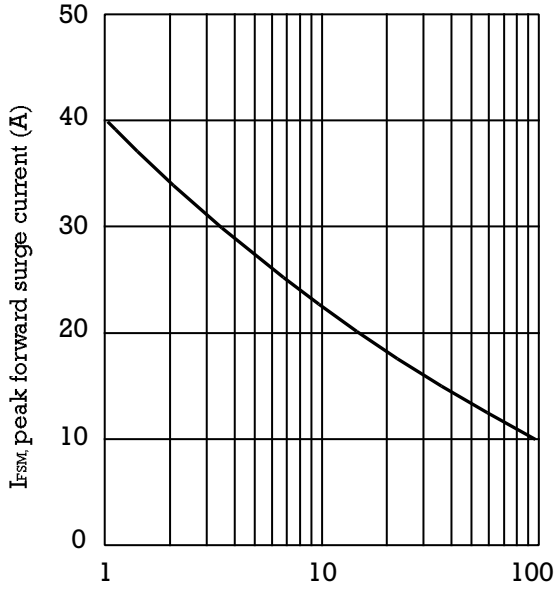
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE