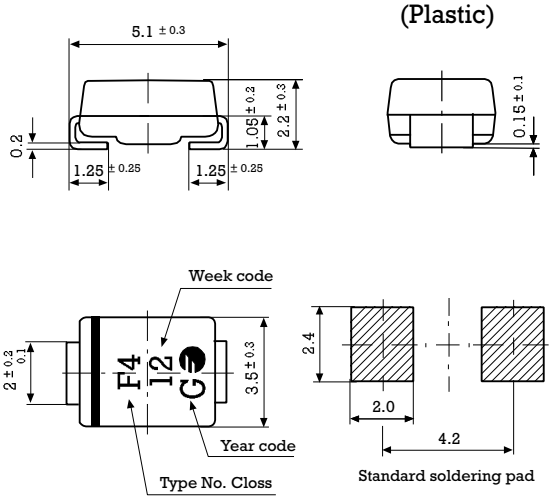
2 Amp. Surface Mounted Schottky Barrier Rectifier

Dimensions in mm.

CASE:
SMB/DO-214AA
(Plastic)



Voltage	Current
20 V to 60 V	2.0 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

		FSS22	FSS23	FSS24	FSS25	FSS26
	Marking Code	B1	B2	B3	B4	B5
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.	2 A				
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	50 A				
T_j	Operating temperature range	– 65 to + 125 °C			– 65 to + 150 °C	
T_{stg}	Storage temperature range	– 65 to + 150 °C				

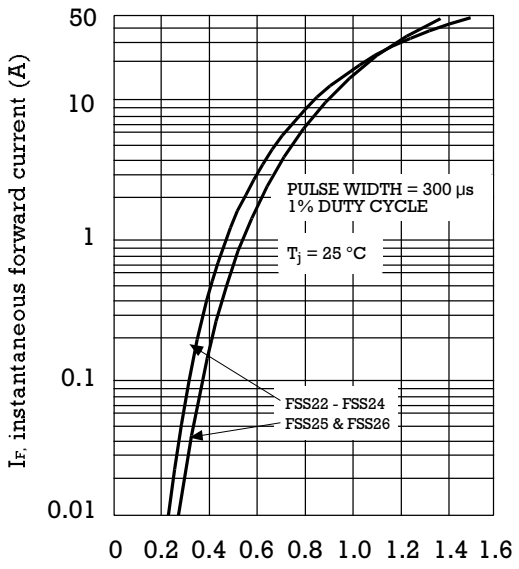
Electrical Characteristics at Tamb = 25 °C

V_F	Max. forward voltage drop at I_F = 2.0 A (1)		0.55 V	0.70 V
I_R	Max. Instantaneous reverse current at V_{RRM} (1)	Ta = 25 °C	0.5 mA	
		Ta = 100 °C	20 mA	10 mA
$R_{thj\text{-}a}$ $R_{thj\text{-}l}$	Maximum Thermal Resistance		75 °C/W 17 °C/W	

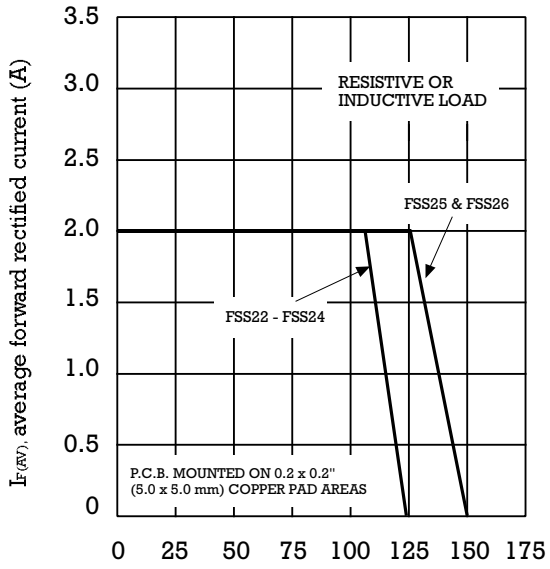
NOTE: Thermal Resistance from junction to lead or to ambient PCB mounted with 5x5 mm copper pads areas.

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

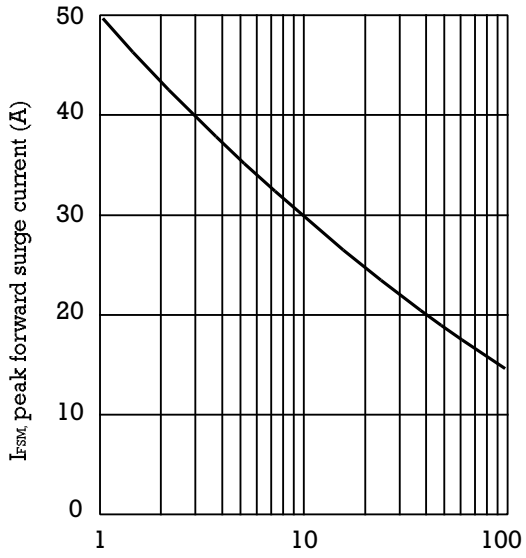
TYPICAL FORWARD CHARACTERISTIC



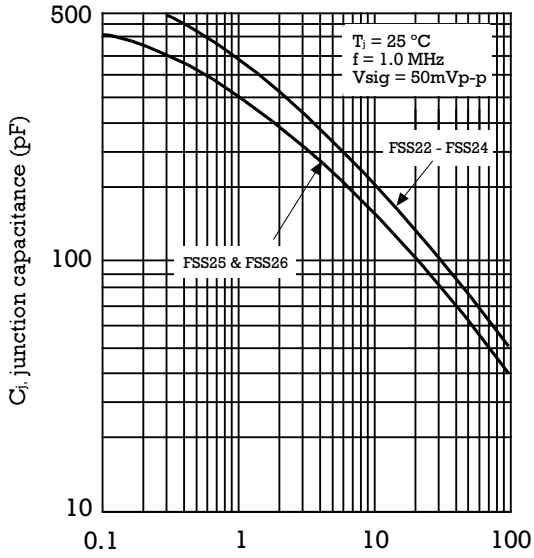
FORWARD CURRENT DERATING CURVE



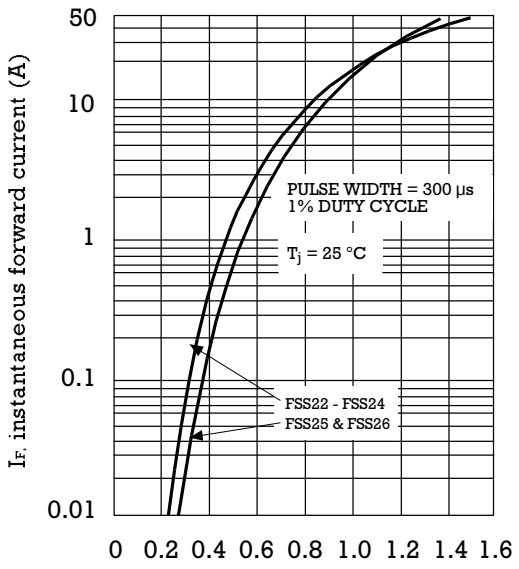
MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT



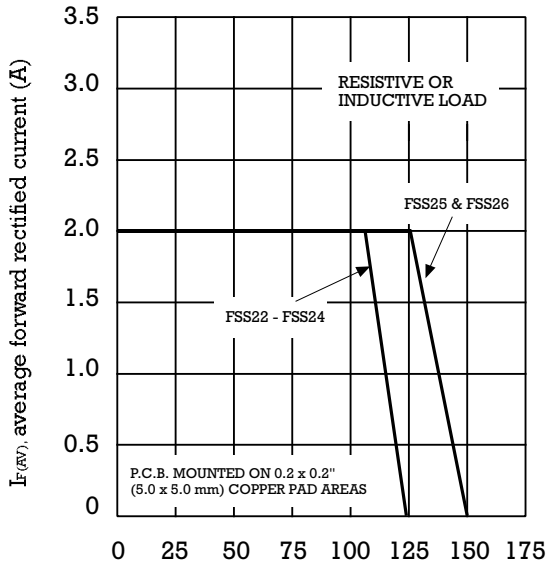
TYPICAL JUNCTION CAPACITANCE



TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



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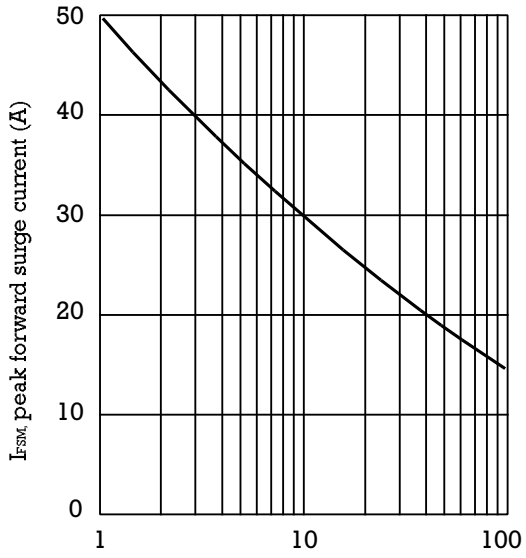

TYPICAL JUNCTION CAPACITANCE