

SS22 thru SS210
SMD Schottky Barrier Diodes

Revision: A

General Description

This Schottky diode is for use in low voltage, high frequency rectifier of switching mode power supplier, DC/DC converters and polarity protection application.

- I Low power loss, high efficiency
- I Low Forward Voltage Drop
- I High forward surge capacity

Features

- I Case: SMB, molded epoxy body
- I Terminal: Matte tin plated leads
- I Polarity: See mark on body

Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	Units
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	90	100	V
Maximum average forward rectifier current	$I_{F(AV)}$	2.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50								A
Operating Junction Temperature Range	T_J, T_{STG}	-50 to 150								$^\circ\text{C}$

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

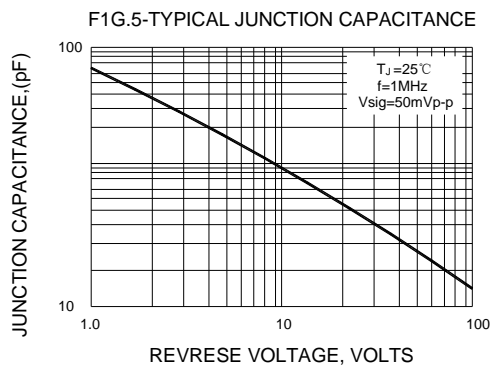
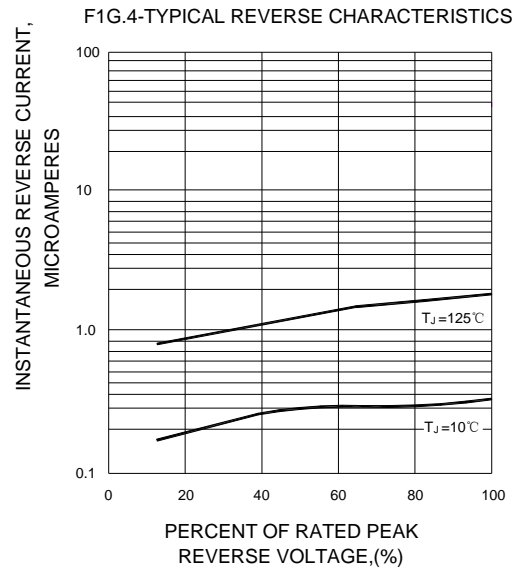
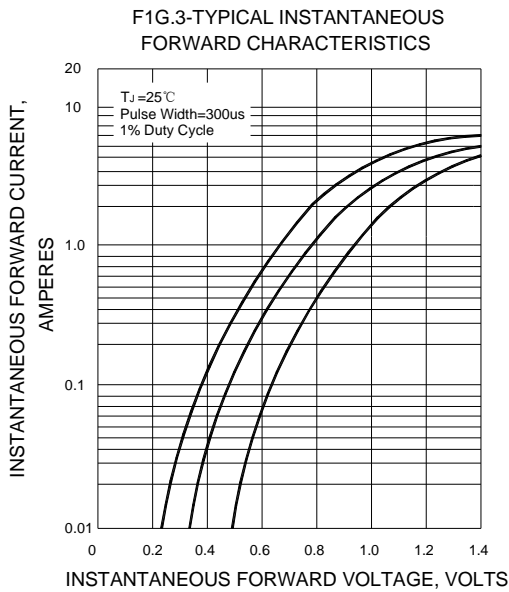
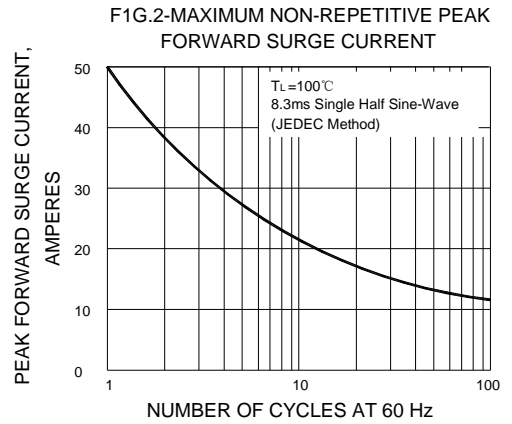
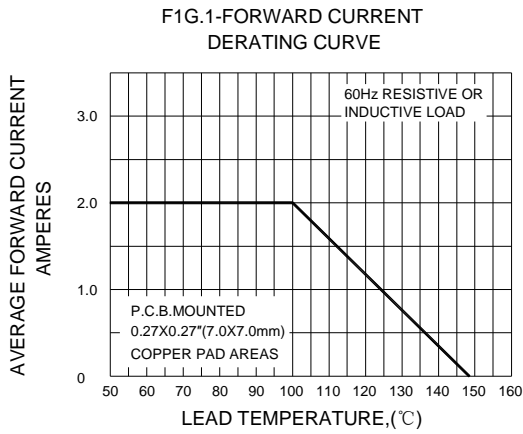
Parameter	Condition	Symbol	SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	Units
Maximum instantaneous forward voltage	$I_F=1\text{A}$	V_F	0.55			0.75		0.85			V
Maximum DC reverse current at blocking voltage	$T_C=25^\circ\text{C}$	I_R	0.5								mA
	$T_C=125^\circ\text{C}$		10								

Thermal Characteristic ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	SS22 thru SS210	Units
Typical Thermal resistance	$R_{\theta JA}^{(1)}$	17	$^\circ\text{C/W}$

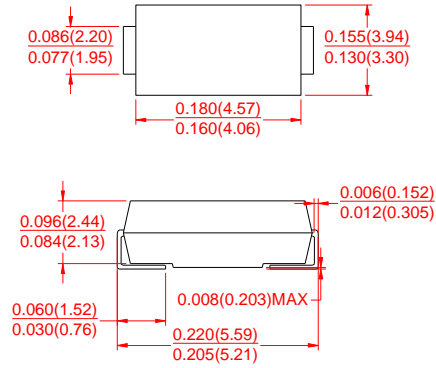
1. P.C.C. Mounted with $0.2'' \times 0.2''$ (5.0×5.0mm) copper pads

Ratings and Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)



Package Outline Dimensions in inches and millimeters

SMB(DO-214AA)



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