

OM SENI

SS22 - S210

Schottky Rectifier

Features

- Glass-Passivated Junctions
- High-Current Capability, Low V_F

Applications

- Low Voltage
- High-Frequency Inverters
- Free Wheeling
- Polarity Protection



SMB/DO-214AA
COLOR BAND DENOTES CATHODE

Ordering Information

Part Number	Marking	Package	Packing Method
SS22	SS22	DO-214AA	Tape and Reel
SS23	SS23		
SS24	SS24		
SS25	SS25		
SS26	SS26		
SS28	SS28		
SS29	SS29		
S210	S210		

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter	Value								Units
		SS22	SS23	SS24	SS25	SS26	SS28	SS29	S210	
V_{RRM}	Maximum Repetitive Reverse Voltage	20	30	40	50	60	80	90	100	V
$I_{F(AV)}$	Maximum Average Forward Current: 0.375-inch Lead Length at $T_A = 75^\circ\text{C}$	2.0								A
I_{FSM}	Non-Repetitive Peak Forward Surge Current: 8.3 ms Single Half-Sine Wave	50								A
T_{STG}	Storage Temperature Range	-65 to +150								$^\circ\text{C}$
T_J	Operating Junction Temperature	-65 to +125								$^\circ\text{C}$

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Thermal Characteristics⁽¹⁾

Symbol	Parameter	Value	Units
P_D	Power Dissipation	1.3	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient ⁽¹⁾	75	°C/W

Note:

1. Device mounted on FE-4 PCB 0.013 mm.

Electrical Characteristics

Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter	Test Conditions	Value							Units
			SS22	SS23	SS24	SS25	SS26	SS28	SS29	
V_F	Forward Voltage	$I_F = 2.0\text{ A}$	500			700		850		mV
I_R	Reverse Current at Rated V_R	$T_A = 25^\circ\text{C}$	0.4							mA
		$T_A = 100^\circ\text{C}$	10							

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Typical Performance Characteristics

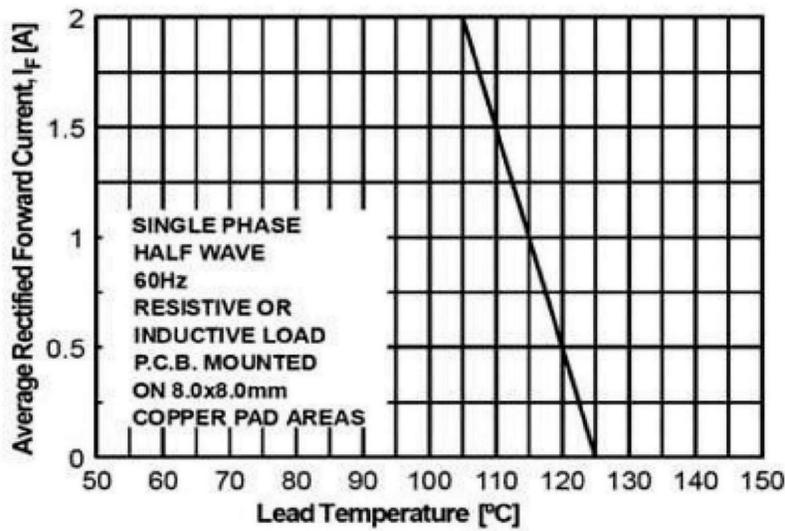


Figure 1. Forward Current Derating Curve

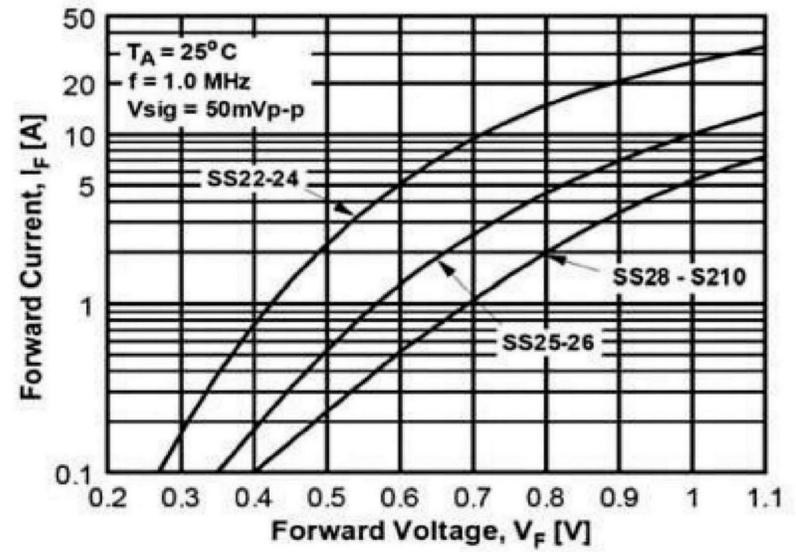


Figure 2. Forward Current Characteristics

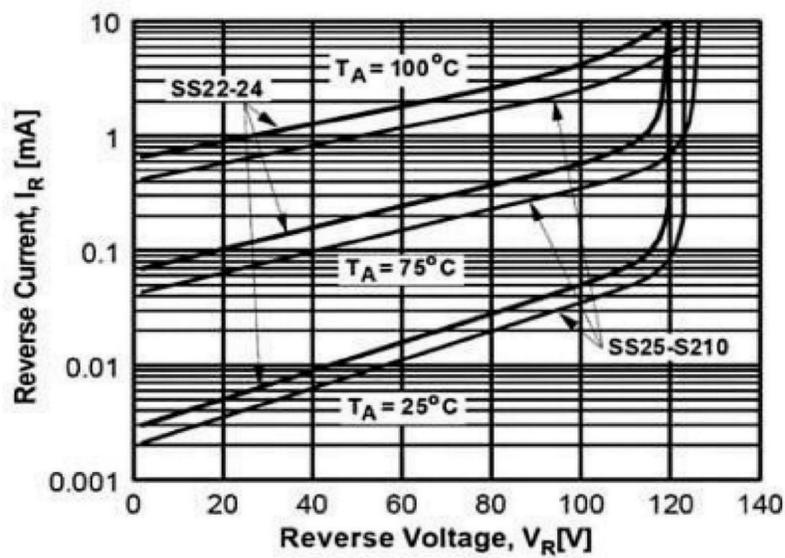


Figure 3. Reverse Current vs. Reverse Voltage

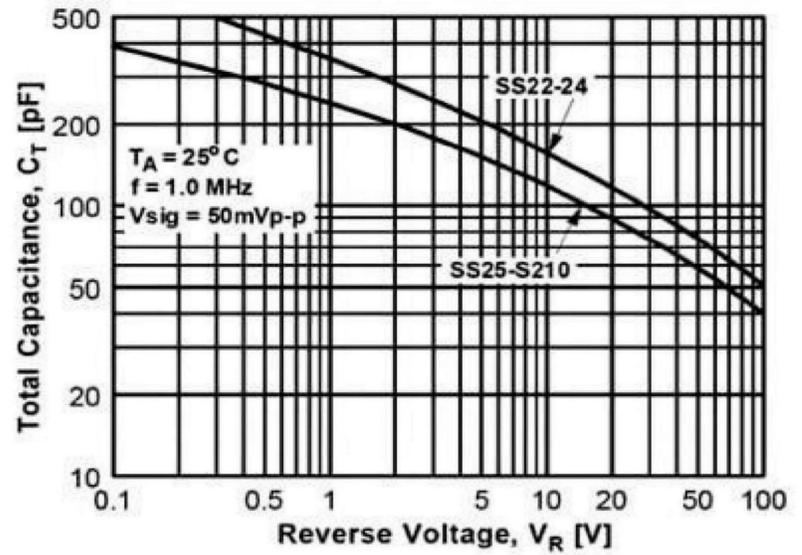


Figure 4. Total Capacitance

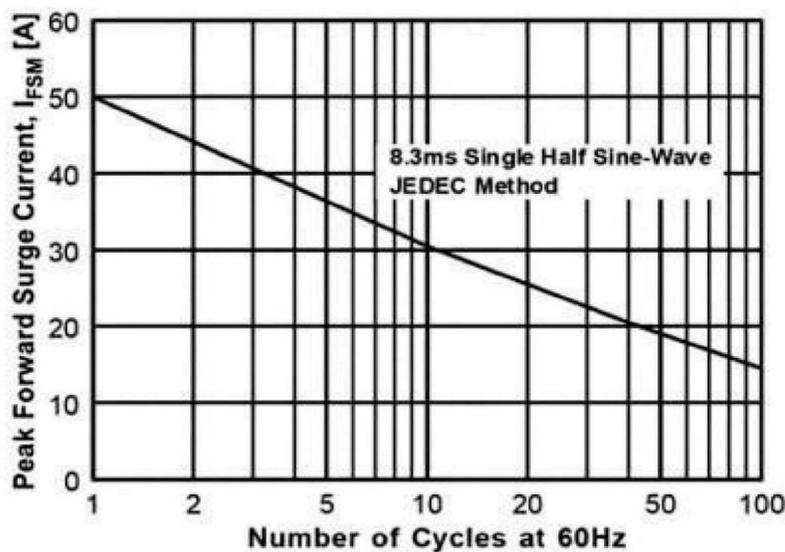


Figure 5. Non-Repetitive Surge Current

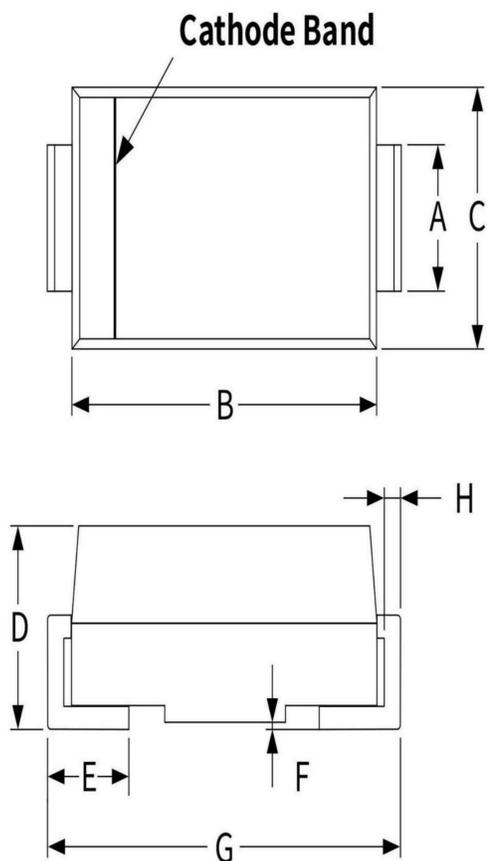
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Ordering Information

PACKAGE	PACKAGE CODE	UNIT WEIGHT(g)	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
SMB	R3	0.098	3000	6000	30000	13"

Package Outline Dimensions (SMB/DO-214AA)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.85	2.21	0.073	0.087
B	4.25	4.85	0.167	0.191
C	3.30	3.94	0.130	0.155
D	2.15	2.65	0.085	0.104
E	0.75	1.52	0.030	0.060
F	-	0.203	-	0.008
G	5.08	5.59	0.200	0.220
H	0.15	0.31	0.006	0.012



Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
M	2.26	-	0.089	-
J	2.10	-	0.085	-
K	-	2.74	-	0.107

