



Micro Commercial Components  
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# SS22-LT THRU SS210-LT

## Features

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- Reverse Energy Tested
- High Current Capability
- Extremely Low Thermal Resistance

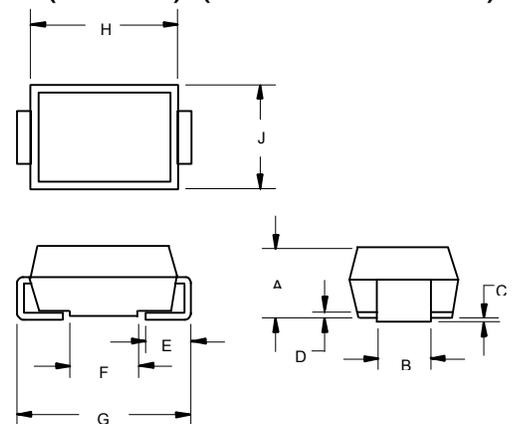
## 2 Amp Schottky Rectifier 20 to 100 Volts

## Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS22-LT	SS22	20V	14V	20V
SS23-LT	SS23	30V	21V	30V
SS24-LT	SS24	40V	28V	40V
SS25-LT	SS25	50V	35V	50V
SS26-LT	SS26	60V	42V	60V
SS28-LT	SS28	80V	56V	80V
SS210-LT	SS210	100V	70V	100V

## DO-214AC (SMAJ) (LEAD FRAME)

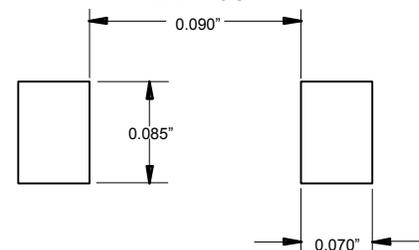


DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.078	.103	1.98	2.62	
B	.050	.064	1.27	1.63	
C	.002	.008	.05	.20	
D	—	.02	—	.51	
E	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
G	.189	.220	4.80	5.59	
H	.157	.181	4.00	4.60	
J	.090	.115	2.25	2.92	

## Electrical Characteristics @ 25°C Unless Otherwise Specified

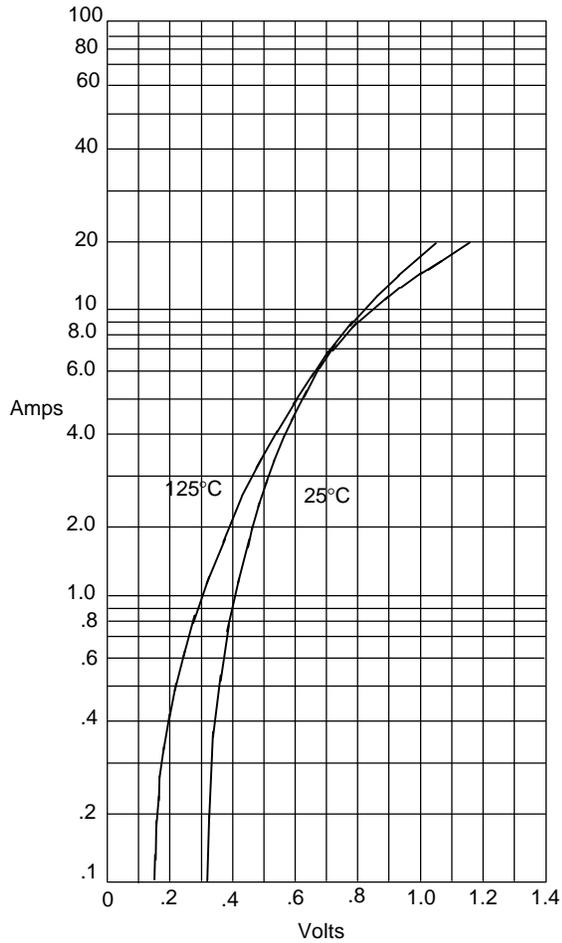
Average Forward Current	$I_{F(AV)}$	2.0A	$T_J = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	.55V .70V .85V	$I_{FM} = 2.0A$ ; $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.5mA	$T_J = 25^\circ\text{C}$
Typical Junction Capacitance	$C_J$	230pF 50pF	Measured at 1.0MHz, $V_R=4.0V$

## SUGGESTED SOLDER PAD LAYOUT



\*Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 2%

Figure 1  
Typical Forward Characteristics



Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics

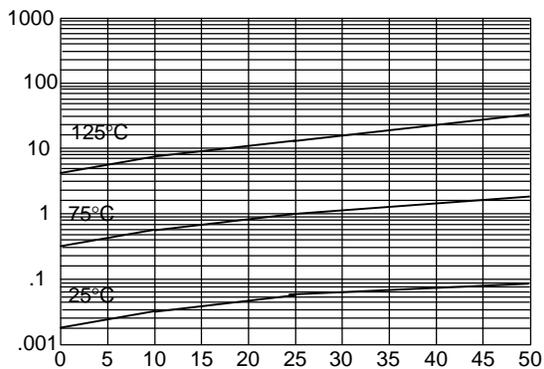
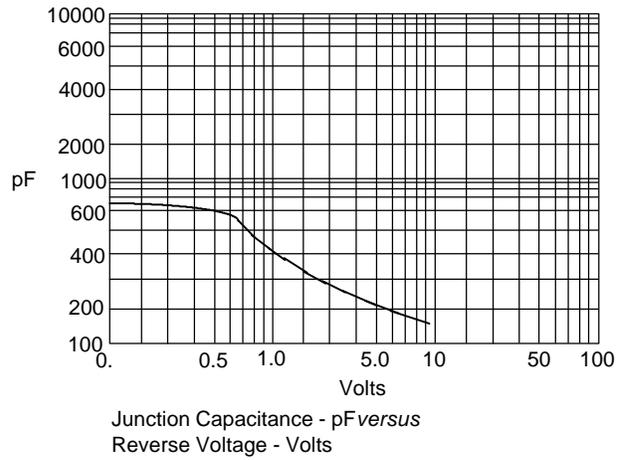


Figure 3  
Typical Junction Capacitance

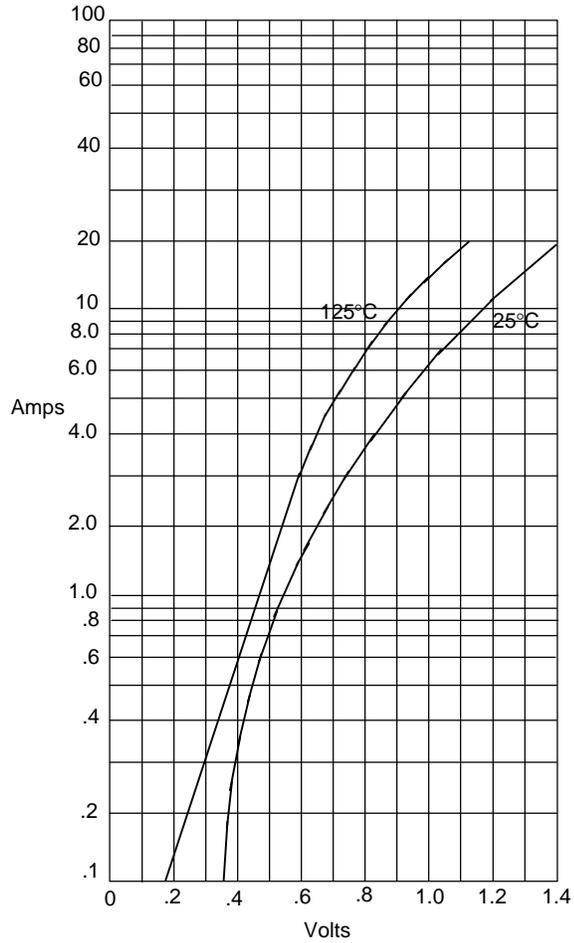


Junction Capacitance - pF versus  
Reverse Voltage - Volts

# SS23-LT thru SS210-LT

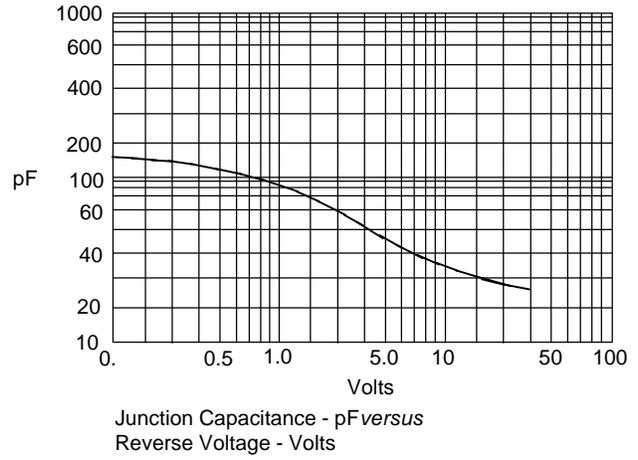


Figure 1  
Typical Forward Characteristics



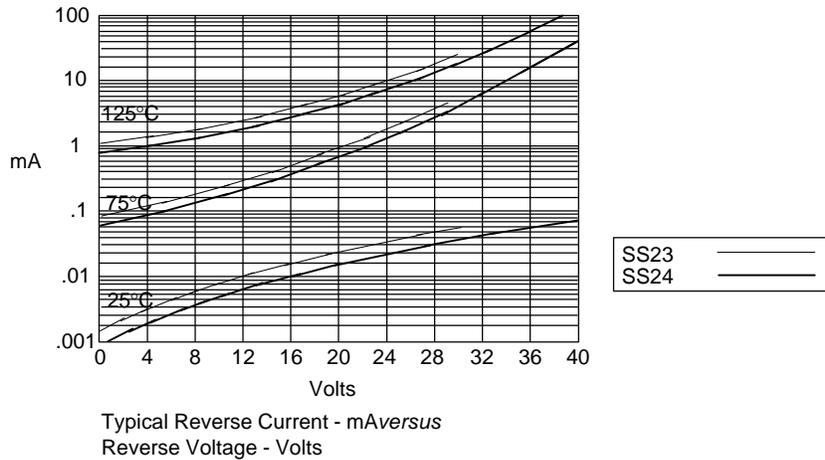
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 3  
Typical Junction Capacitance



Junction Capacitance - pF versus  
Reverse Voltage - Volts

Figure 2  
Typical Reverse Characteristics



Typical Reverse Current - mA versus  
Reverse Voltage - Volts