



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

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

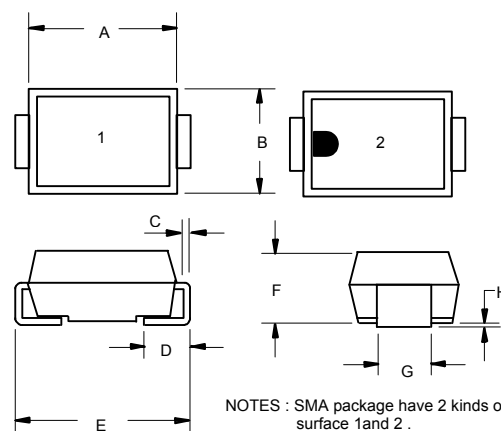
Electrical Characteristics @ 25°C Unless Otherwise Specified

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 SS22-SS24 SS25-SS26 SS28-SS210	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 SS22 SS23-SS210	C_J	230pF 50pF	Measured at 1.0MHz, $V_R=4.0V$

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

2 Amp Schottky Rectifier 20 to 100 Volts

DO-214AC (SMAJ) (LEAD FRAME)



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.157	.181	3.99	4.60	
B	.090	.115	2.29	2.92	
C	.006	.012	0.15	0.31	
D	.030	.060	0.76	1.52	
E	.189	.220	4.80	5.59	
F	.078	.103	1.98	2.62	
G	.050	.064	1.27	1.63	
H	.002	.008	0.05	0.203	

SUGGESTED SOLDER PAD LAYOUT

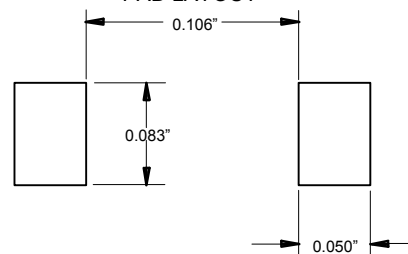
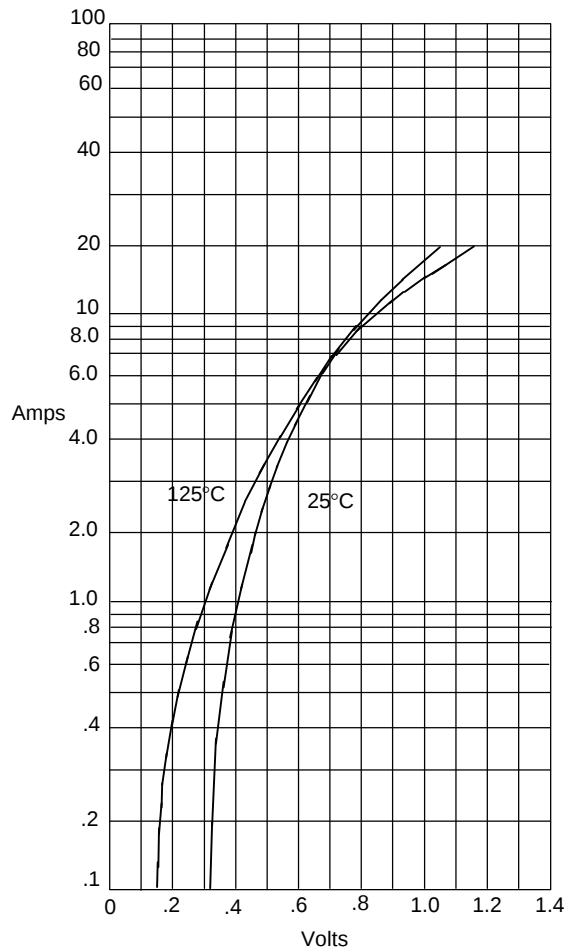


Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics

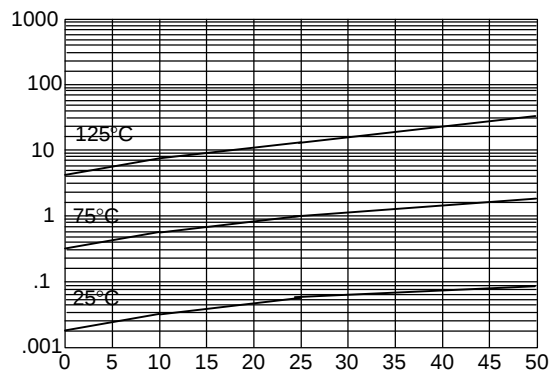
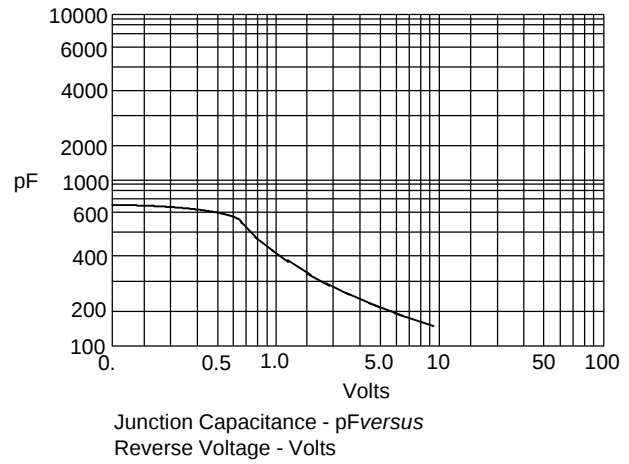


Figure 3
Typical Junction Capacitance

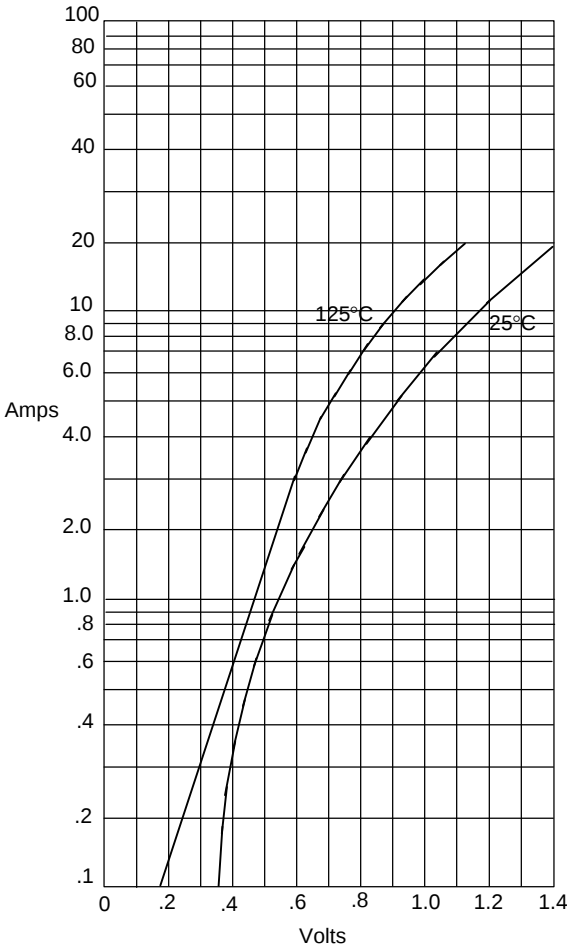


Junction Capacitance - pF versus
Reverse Voltage - Volts

SS23-LT thru SS210-LT

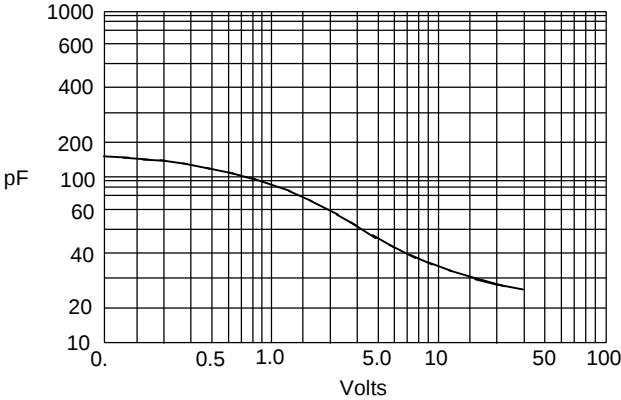


Figure 1
Typical Forward Characteristics



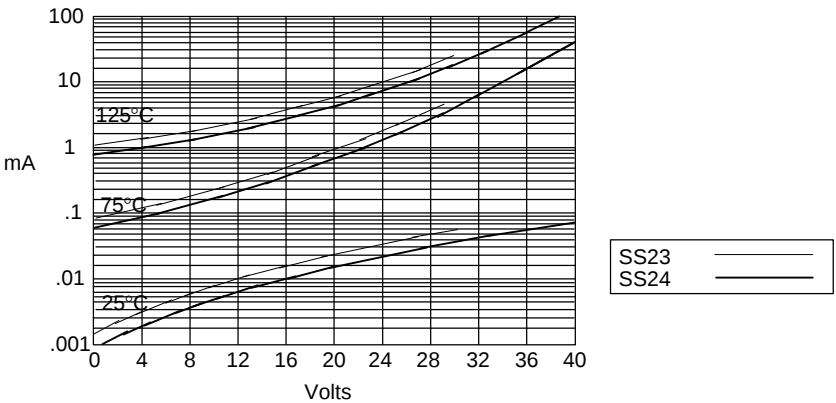
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

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