

TM

# SMLJ60S05 THRU SMLJ60S10

## Features

- Glass Passivated Chip
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- High Surge Current Capability
- Low Leakage

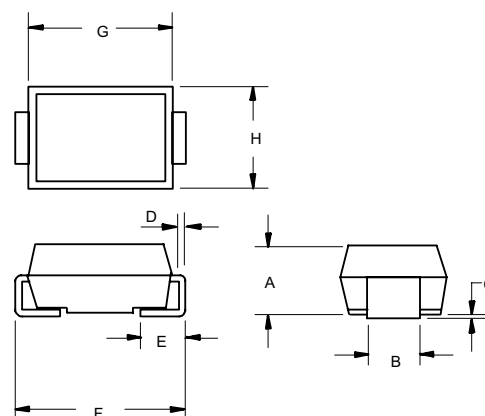
## Maximum Ratings

- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SMLJ60S05	60S05	50V	35V	50V
SMLJ60S1	60S1	100V	70V	100V
SMLJ60S2	60S2	200V	140V	200V
SMLJ60S4	60S4	400V	280V	400V
SMLJ60S6	60S6	600V	420V	600V
SMLJ60S8	60S8	800V	560V	800V
SMLJ60S10	60S10	1000V	700V	1000V

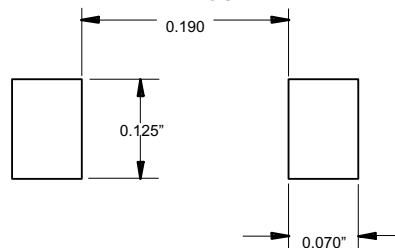
## 6 Amp Surface Mount Glass Passivated Rectifier 50 - 1000 Volts

### DO-214AB



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.079	.103	2.00	2.62	
B	.108	.128	2.75	3.25	
C	.002	.008	0.051	0.203	
D	.006	.012	0.152	0.305	
E	.030	.050	0.76	1.27	
F	.305	.320	7.75	8.13	
G	.260	.280	6.60	7.11	
H	.220	.245	5.59	6.22	

### SUGGESTED SOLDER PAD LAYOUT



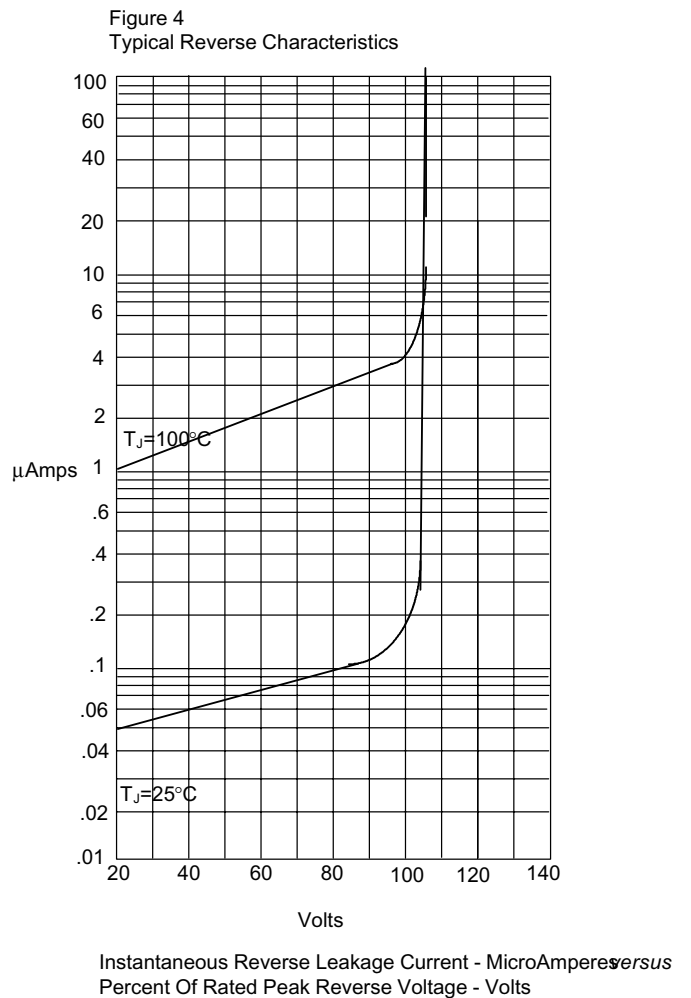
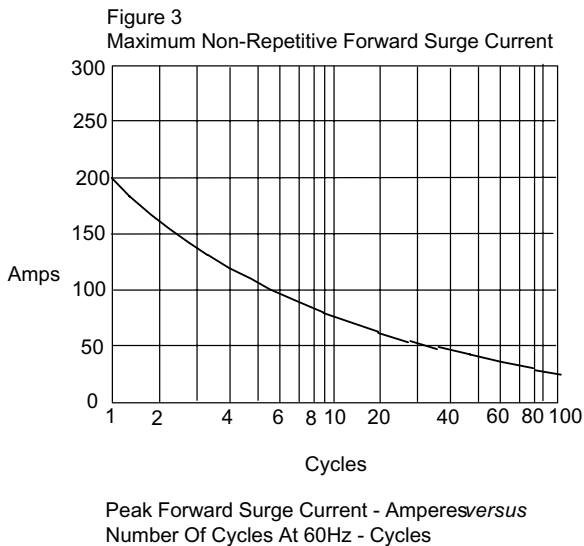
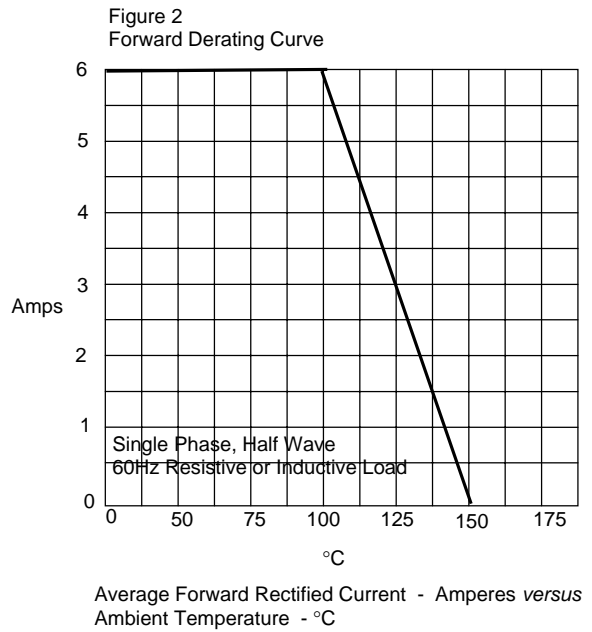
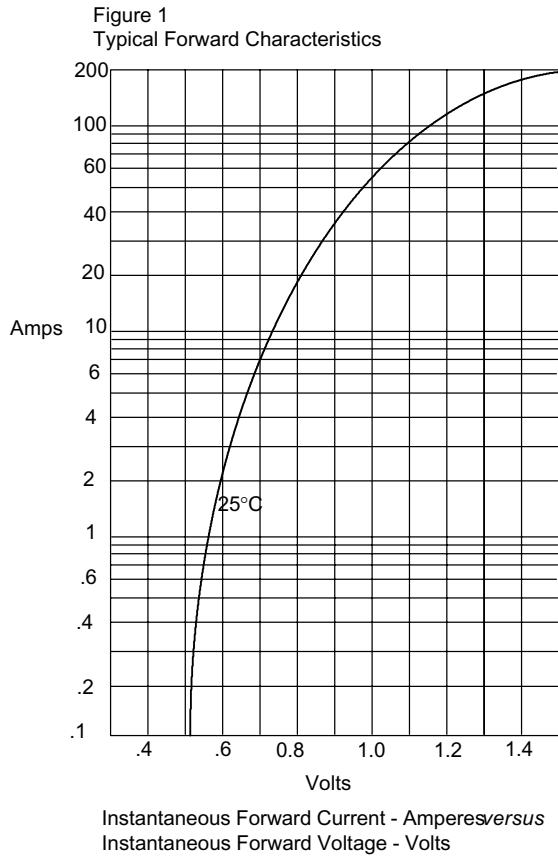
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6.0A	$T_A = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.0V	$I_{FM} = 6.0A$ ; $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5 $\mu\text{A}$ 100 $\mu\text{A}$	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	150pF	Measured at 1.0MHz, $V_R=4.0V$

\*Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 1%

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