



Micro Commercial Components

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# SK225L

## Features

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

## Maximum Ratings

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

MCC catalog Number	Device Marking	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
SK225L	225L	25V	25V

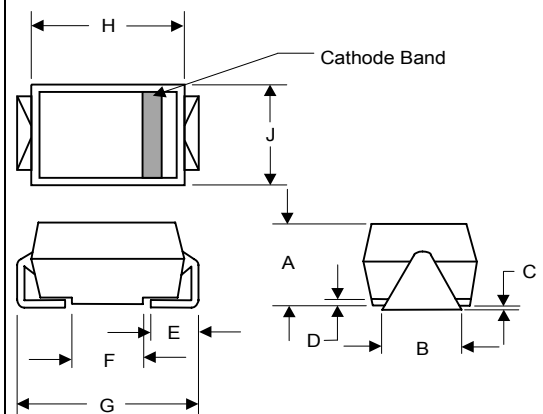
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average forward current	$I_{F(AV)}$	2A	Square wave
Maximum surge current	$I_{FSM}$	50A	8.3ms, half sine, $T_J = 150^\circ\text{C}$
Max peak forward voltage	$V_{FM}$	.55V	$I_{FM} = 2.0\text{A}; T_J = 25^\circ\text{C}^*$
Max peak reverse current	$I_{RM}$	500 $\mu\text{A}$	$V_{RRM}, T_J = 25^\circ\text{C}$
Typical junction capacitance	$C_J$	50pF	$V_R = 5.0\text{V}, T_J = 25^\circ\text{C}$

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

## 2 Amp Schottky Rectifier 25 Volts

### DO-214AC (SMAJ)(LOW PROFILE)



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.078	.090	1.98	2.29	
B	.067	.089	1.70	2.25	
C	.002	.008	.05	.20	
D	---	.02	---	.51	
E	.035	.055	.90	1.40	
F	.065	.091	1.65	2.32	
G	.205	.224	5.21	5.70	
H	.160	.180	4.06	4.57	
J	.100	.112	2.57	2.84	

### SUGGESTED SOLDER PAD LAYOUT

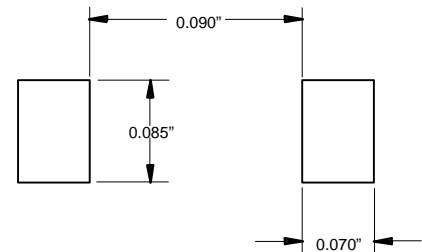
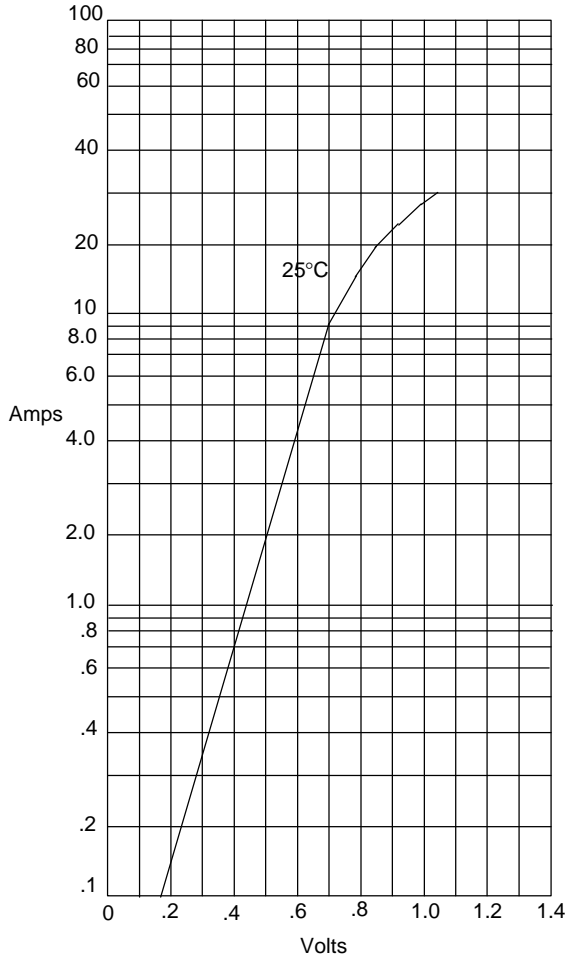
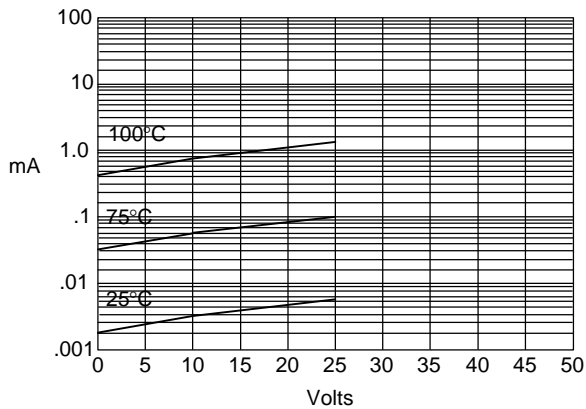


Figure 1  
Typical Forward Characteristics



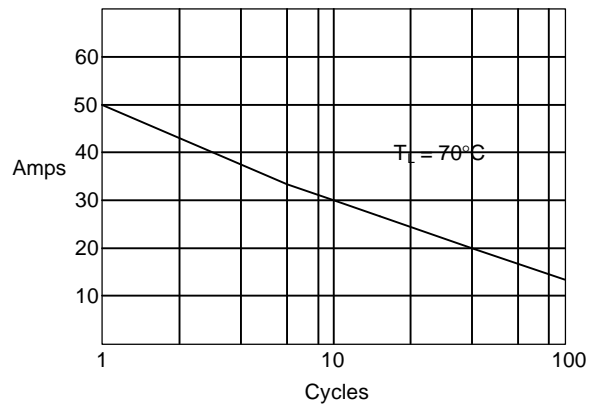
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



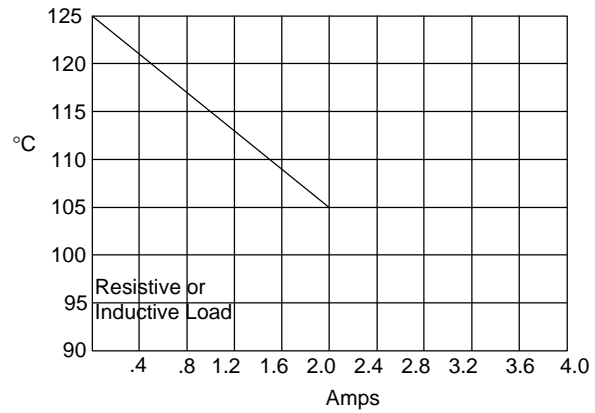
Typical Reverse Current - mA versus  
Reverse Voltage - Volts

Figure 3  
Maximum Nonrepetitive Surge Current



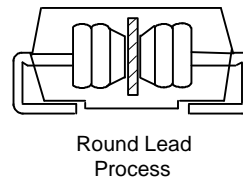
Peak Forward Current - Amperes versus  
Number of Cycles at 60Hz

Figure 4  
Forward Current Derating



Maximum Allowable Case Temperature °C versus  
Average Forward Current - Amperes

Figure 5  
New SMA Assembly



Round Lead  
Process