Micro Commercial Components

Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

# SK225L

## Features

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

**2 Amp**
**Schottky Rectifier**
**25 Volts**

## 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

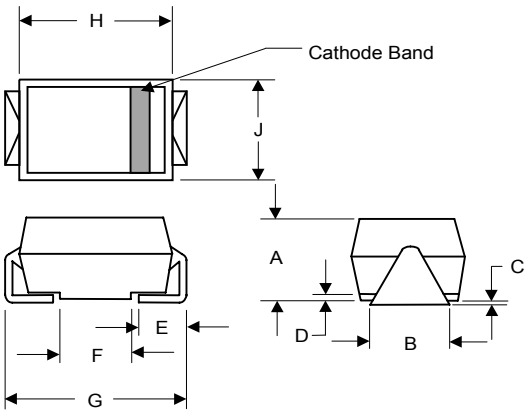
| MCC catalog Number | Device Marking | Working Peak Reverse Voltage | Repetitive Peak Reverse Voltage |
|---|---|---|---|
| SK225L | 225L | 25V | 25V |

## 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°C |
| Max peak forward voltage | $V_{FM}$ | .55V | $I_{FM}$ = 2.0A; $T_J$ = 25°C* |
| Max peak reverse current | $I_{RM}$ | 500µA | $V_{RRM}$, $T_J$ = 25°C |
| Typical junction capacitance | $C_J$ | 50pF | $V_R$ = 5.0V, $T_J$ = 25°C |

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

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




| DIMENSIONS | | | | | |
|---|---|---|---|---|---|
| | INCHES | | MM | | |
| DIM | MIN | MAX | MIN | MAX | NOTE |
| 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

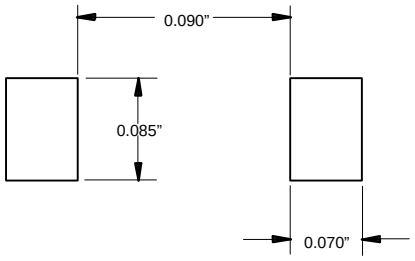
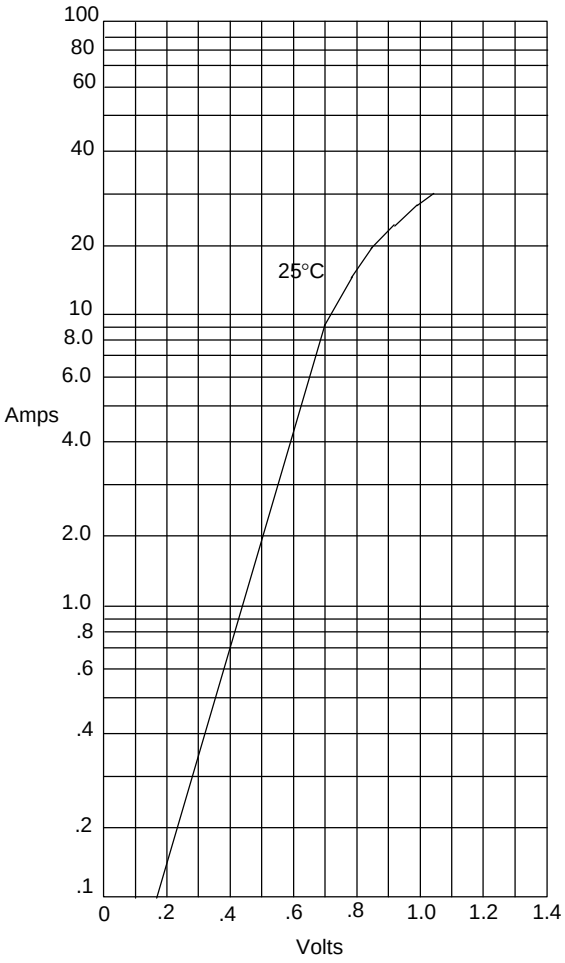
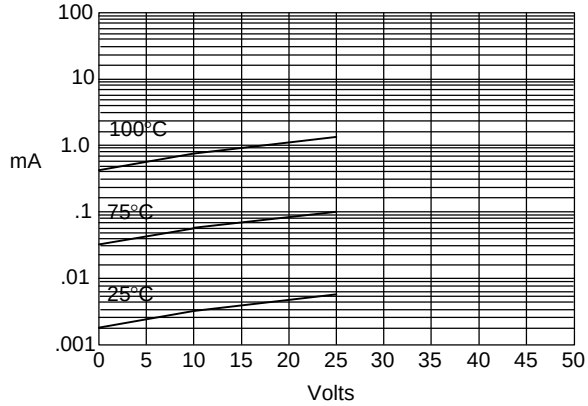


Figure 1
Typical Forward Characteristics



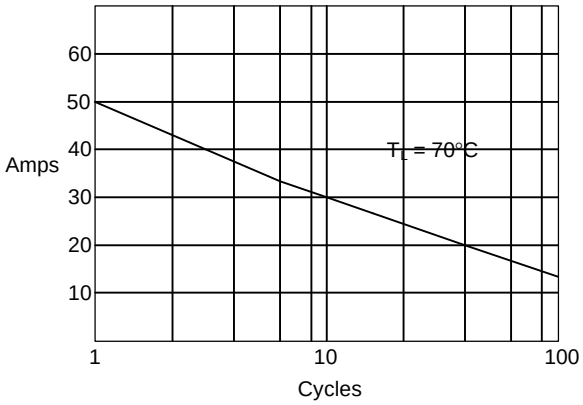

Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



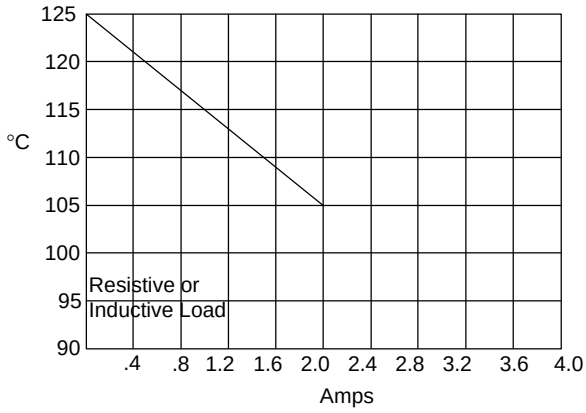

Typical Reverse Current - mA *versus*
Reverse Voltage - Volts

Figure 3
Maximum Nonrepetitive Surge Current



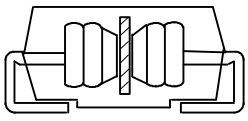

Peak Forward Current - Amperes *versus*
Number of Cycles at 60Hz

Figure 4
Forward Current Derating




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

Figure 5
New SMA Assembly



Round Lead
Process