

M·C·C·

Micro Commercial Components



Micro Commercial Components
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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- High Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

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	$T_c = 105^\circ C$
Maximum surge current	I_{FSM}	50A	8.3ms, half sine,
Max peak forward voltage	V_{FM}	.55V	$I_{FM} = 2.0A; T_J = 25^\circ C^*$
Max peak reverse current	I_{RM}	500 μ A	$V_{RRM}, T_J = 25^\circ C$
Typical junction capacitance	C_J	50pF	$V_R = 5.0V, 1Mhz$

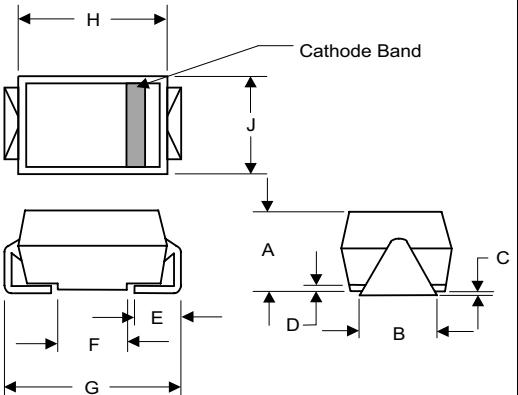
*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

SK225L

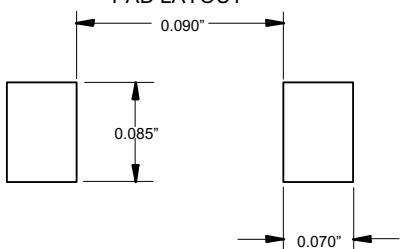
**2 Amp
Schottky Rectifier
25 Volts**

**DO-214AC
(SMAL)(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



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Revision: B

1 of 3

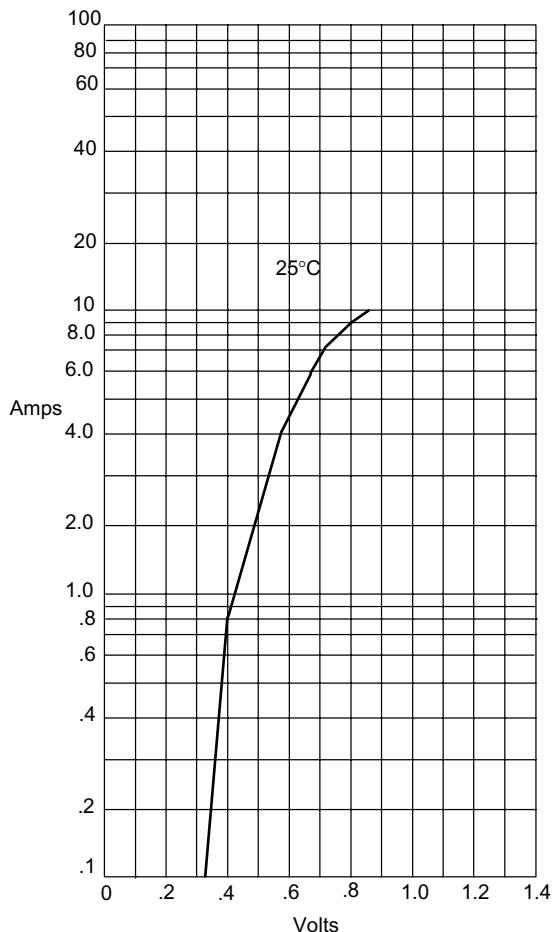
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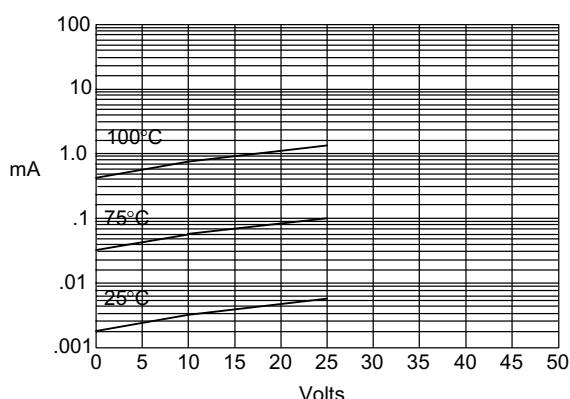
Micro Commercial Components™

Figure 1
Typical Forward Characteristics



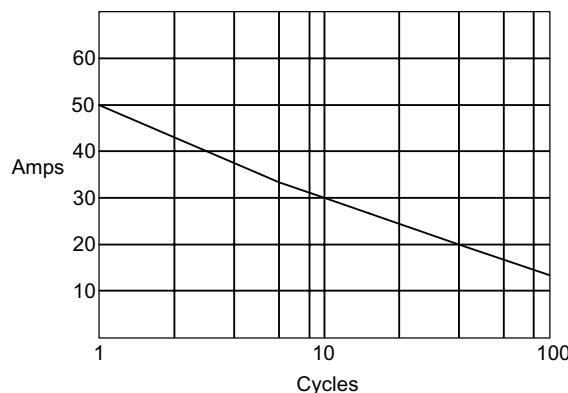
Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



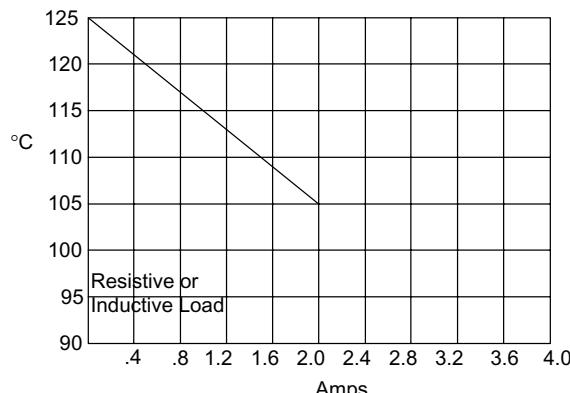
Typical Reverse Current - mAversus
Reverse Voltage - Volts

Figure 3
Maximum Nonrepetitive Surge Current



Peak Forward Current - Amperesversus
Number of Cycles at 60Hz

Figure 4
Forward Current Derating



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

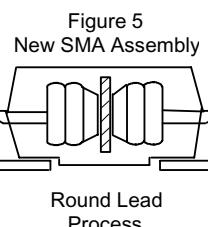


Figure 5
New SMA Assembly

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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