

™

SK225L

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
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

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

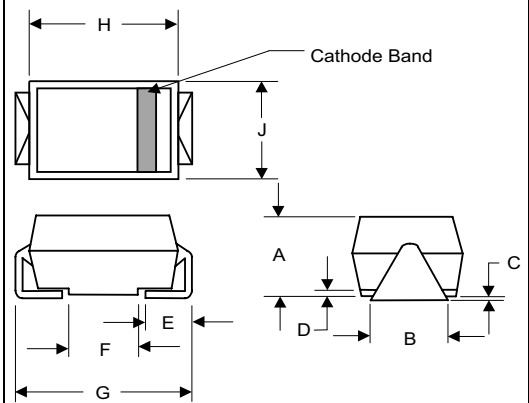
Average forward current	$I_{F(AV)}$	2A	$T_c = 105^\circ\text{C}$
Maximum surge current	I_{FSM}	50A	8.3ms, half sine,
Max peak forward voltage	V_{FM}	.55V	$I_{FM} = 2.0\text{A}; T_J = 25^\circ\text{C}^*$
Max peak reverse current	I_{RM}	500 μA	$V_{RRM}, T_J = 25^\circ\text{C}$
Typical junction capacitance	C_J	50pF	$V_R = 5.0\text{V}, 1\text{Mhz}$

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

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

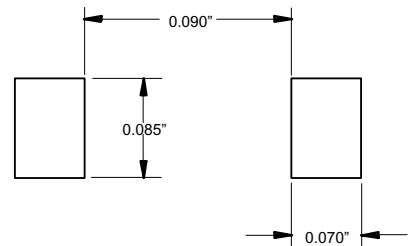
2 Amp Schottky Rectifier 25 Volts

DO-214AC (SMAL)(LOW PROFILE)



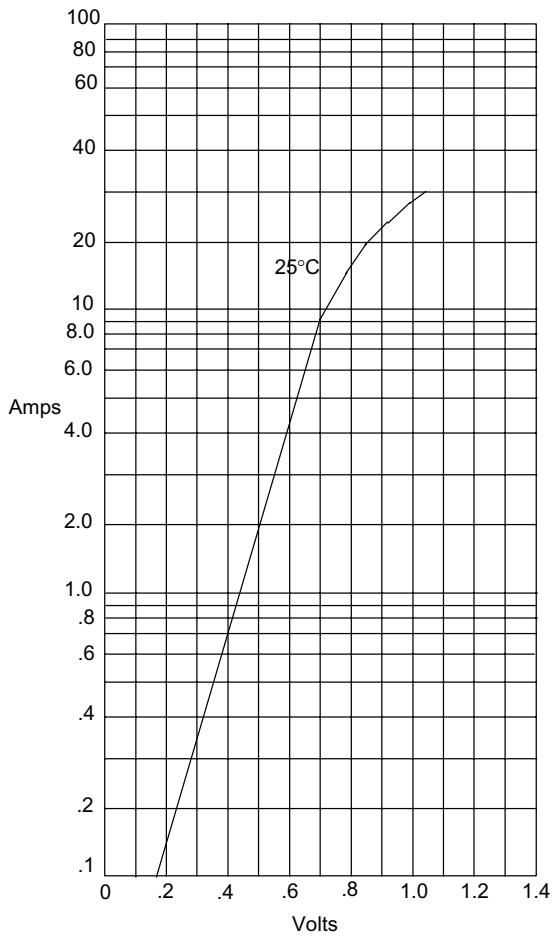
DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.078	.090	1.98	2.29	
B	.067	.089	1.70	2.25	
C	.002	.008	.05	.20	
D	---	.02	---	.51	
E	.035	.055	.90	1.40	
F	.065	.091	1.65	2.32	
G	.205	.224	5.21	5.70	
H	.160	.180	4.06	4.57	
J	.100	.112	2.57	2.84	

SUGGESTED SOLDER PAD LAYOUT



SK225L

Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics

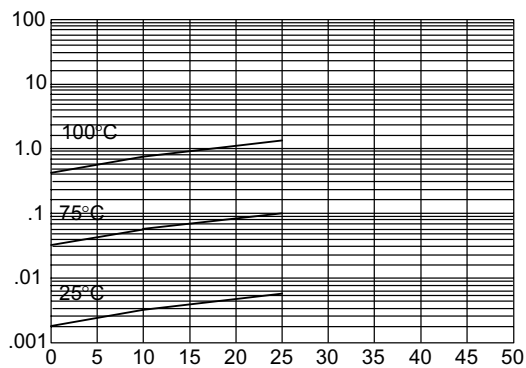
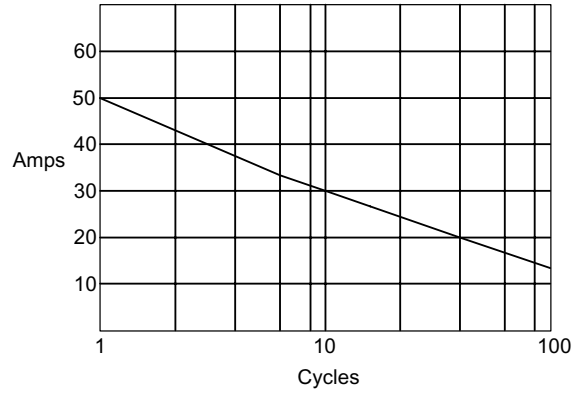
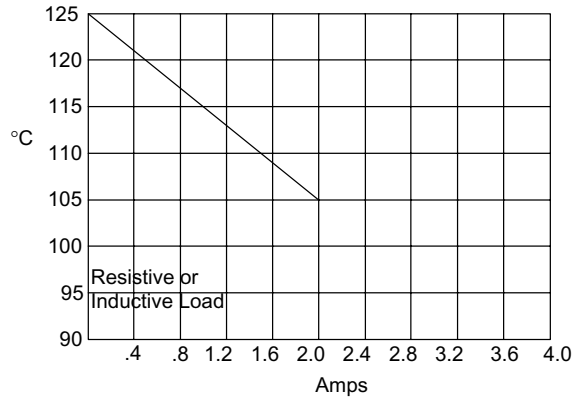


Figure 3
Maximum Nonrepetitive Surge Current

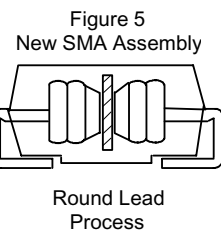


Peak Forward Current - Amperes versus
Number of Cycles at 60Hz

Figure 4
Forward Current Derating



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



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel
