

Features

- Halogen Free. "Green" Device (Note 1)
- High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Downston	Symbol	Value							11:4		
Parameter S		SK	SK 23-L	SK 24-L		SK 26-L	SK 28-L	SK 210-L	SK 2150-L	SK 220-L	Unit
Peak Repetitive Reverse Voltage	V_{RRM}										
Working Peak Reverse Voltage	V_{RWM}	20	30	40	50	60	80	100	150	200	V
DC Blocking Voltage	V_R										
RMS Reverse Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	٧
Average Rectified Forward Current	I _{F(AV)}						2				Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	50			Α						
Current Squared Time @1ms≤t≤8.3ms	l ² t					,	10.37	5			A ² s

Marking code

Part Number	Marking Code
SK22-L	SK22
SK23-L	SK23
SK24-L	SK24
SK25-L	SK25
SK26-L	SK26
SK28-L	SK28
SK210-L	SK210
SK2150-L	SK2150
SK220-L	SK220

Internal Structure

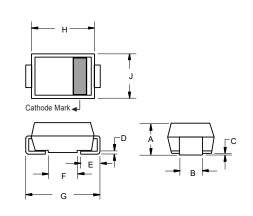
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	1 MCC 2	
2	Anode	XXXX = Marking code	1 0 2

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.

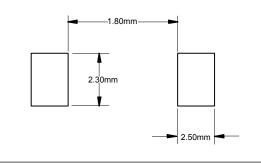
& Amp Gi fZUW/Aci bh GW chh_mF YW/JZJYf &0 to &00 Volts

SMB(DO-214AA)



DIMENSIONS						
DIM	INC	INCHES		M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.079	0.103	2.00	2.62		
В	0.075	0.087	1.91	2.21		
С	0.002	0.008	0.05	0.20		
D	0.006	0.012	0.15	0.31		
Е	0.030	0.060	0.76	1.52		
F	0.065	0.091	1.65	2.32		
G	0.200	0.220	5.08	5.59		
Н	0.160	0.191	4.06	4.85		
J	0.130	0.155	3.30	3.94		

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range	SK22-L ~ SK24-L	-55		125	°C
TJ	Operating Junction Temperature Range	SK25-L ~ SK220-L	-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		15		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		71		°C/W

Note:

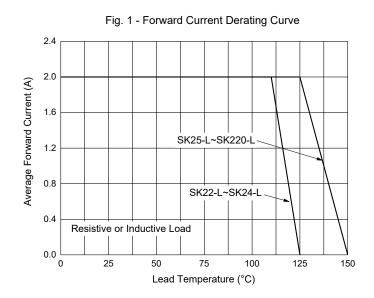
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SK22-L ~ SK24-L	V _F	I _F =2A;T _J =25°C			0.50	V
SK25-L ~ SK26-L					0.70	
SK28-L ~ SK210-L					0.85	
SK2150-L ~ SK220-L					0.90	
Reverse Current						
SK22-L ~ SK26-L	I _R	at Rated V _R ;T _J =25°C			0.1	mA
		at Rated V _R ;T _J =125°C			20	
SK28-L ~ SK220-L		at Rated V _R ;T _J =25°C			0.01	
		at Rated V _R ;T _J =125°C			5	
Junction Capacitance						
SK22-L ~ SK24-L	CJ	$V_R=4V; f=1MHz; T_J=25$ °C		125		pF
SK25-L ~ SK26-L	-	_		90		i i
SK28-L ~ SK210-L				60		
SK2150-L ~ SK220-L				50		

^{1.}Mounted on P.C.B. with 8mm*8mm copper pad areas.



Curve Characteristics



Current

60

Current

40

40

As a ms Single Half Sine-Wave

0

10

Number of Cycles at 60 Hz

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Fig. 3 - Typical Forward Characteristics

T_J=25°C
=75°C
=75°C
=125°C
SK22-L~SK24-L
0.01
0.0
0.2
0.4
0.6
0.8
1.0

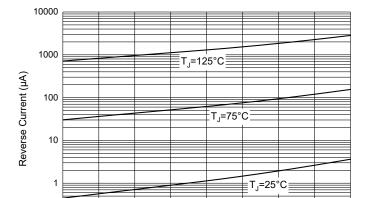
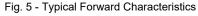
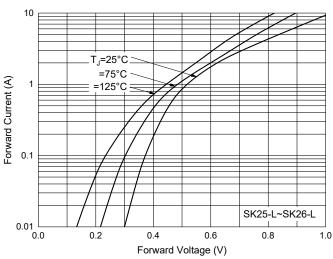


Fig. 4 - Typical Reverse Leakage Characteristics







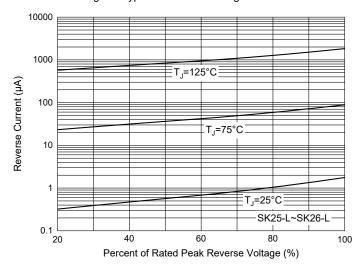
60

Percent of Rated Peak Reverse Voltage (%)

SK22-L~SK24-L

100

80



0.1

20

40



Curve Characteristics

Fig. 7 - Typical Forward Characteristics

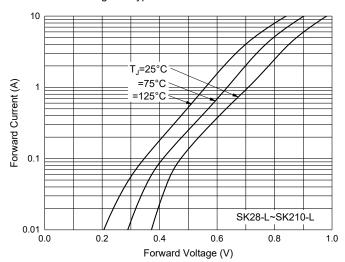


Fig. 9 - Typical Forward Characteristics

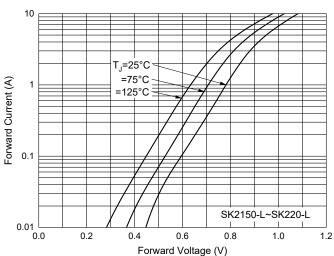


Fig. 11 - Typical Capacitance Characteristics

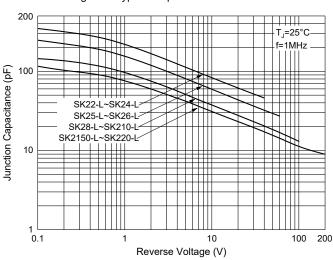


Fig. 8 - Typical Reverse Leakage Characteristics

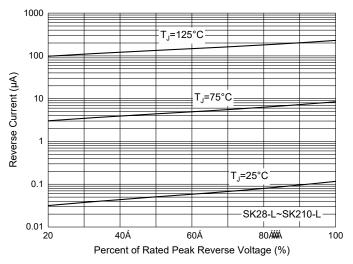
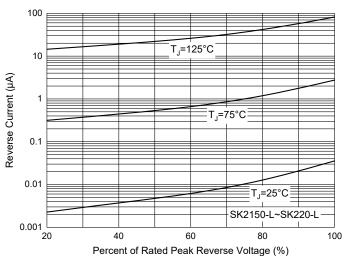


Fig. 10 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
SK22-LTP ~ SK220-LTP	Tape&Reel:3Kpcs/Reel

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp**. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp**, and all the companies whose products are represented on our website, harmless against all damages. **Micro Commercial Components Corp**, products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.