

Features

- Halogen Free. "Green" Device (Note 1)
- 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)
- For Surface Mount Application

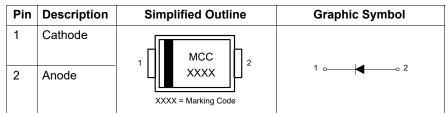
Maximum Ratings @ 25°C (Unless Otherwise Specified)

			Value								
Parameter	Symbol	SK 52 A-L	SK 53 A-L	SK 54 A-L	SK 55 A-L	SK 56 A-L	SK 58 A-L	SK 510 A-L	SK 5150 A-L	SK 5200 A-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	V
Average Rectified Forward Current	I _{F(AV)}	5				А					
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	100					A				
Current Squared Time @1ms≤t≤8.3ms	l ² t	41.5				A²s					

Marking Code

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Part Number	Marking Code
SK52A-L	SK52A
SK53A-L	SK53A
SK54A-L	SK54A
SK55A-L	SK55A
SK56A-L	SK56A
SK58A-L	SK58A
SK510A-L	SK510A
SK5150A-L	SK5150A
SK5200A-L	SK5200A

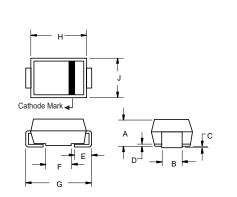
Internal Structure



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.

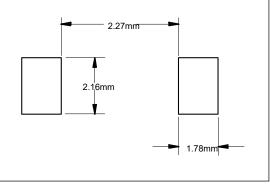
5 Amp 'GW(cHh_mFYW)]2]Yf &0 to &00 Volts



SMA (DO-214AC)

	DIMENSIONS						
DIM	INC	HES	М	М	NOTE		
DIN	MIN	MAX	MIN	MAX	NOTE		
Α	0.079	0.096	2.00	2.44			
В	0.050	0.064	1.27	1.63			
С	0.002	0.008	0.051	0.203			
D		0.020		0.51			
E	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.189	0.220	4.80	5.59			
Н	0.157	0.187	4.00	4.75			
J	0.090	0.115	2.25	2.92			

SUGGESTED SOLDER PAD LAYOUT





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		23		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		80		°C/W

Note:

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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SK52A-L ~ SK54A-L	V _F	I _F =5A;T _J =25°C			0.55	V
SK55A-L ~ SK56A-L					0.70	
SK58A-L ~ SK510A-L					0.85	
SK5150A-L ~ SK5200A-L					0.90	
Reverse Current						
SK52A-L ~ SK56A-L	I _R	at Rated V_R ;T _J =25°C			0.1	
		at Rated V _R ;T _J =100°C			10	mA
SK58A-L ~ SK5200A-L		at Rated V _R ;T _J =25°C			0.01	110 (
		at Rated V _R ;T _J =100°C			1	
Junction Capacitance						
SK52A-L ~ SK54A-L	CJ	V _R =4V;f=1MHz;T _J =25°C		275		pF
SK55A-L ~ SK56A-L				195		-
SK58A-L ~ SK510A-L				135		
SK5150A-L ~ SK5200A-L				95		





Curve Characteristics

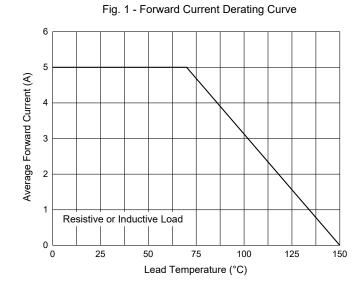


Fig. 3 - Typical Forward Characteristics

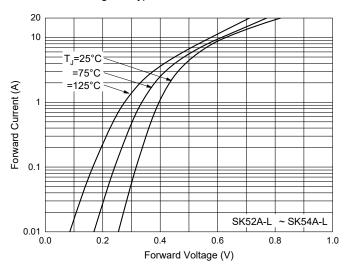
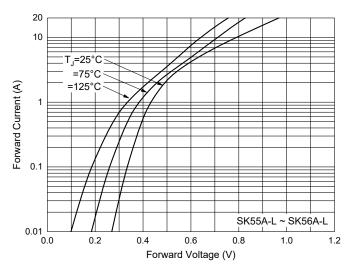


Fig. 5 - Typical Forward Characteristics



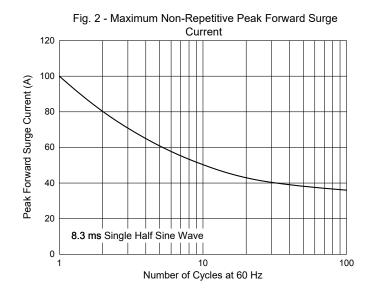


Fig. 4 - Typical Reverse Leakage Characteristics

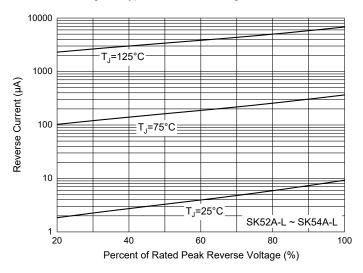
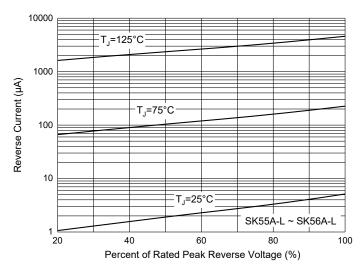


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics



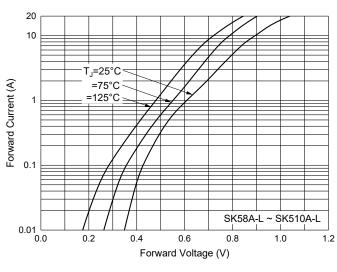


Fig. 9 - Typical Forward Characteristics

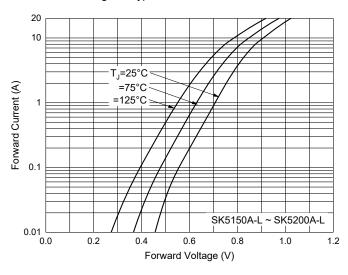
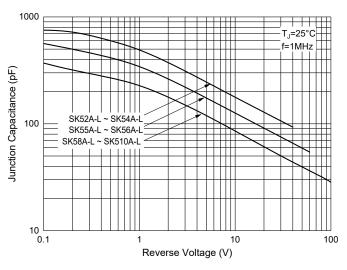


Fig. 11 - Typical Capacitance Characteristics



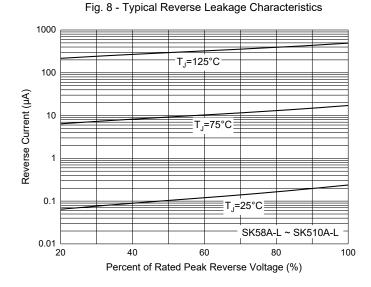


Fig. 10 - Typical Reverse Leakage Characteristics

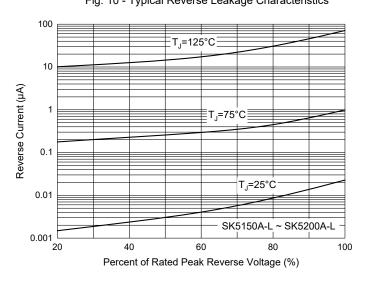
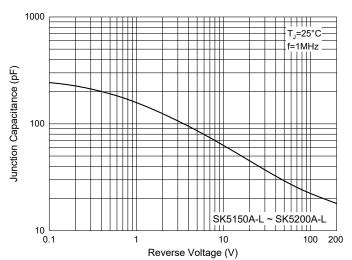


Fig. 12 - Typical Capacitance Characteristics





Ordering Information

Device	Packing
SK52A-LTP ~ SK5200A-LTP	Tape&Reel:5Kpcs/Reel

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