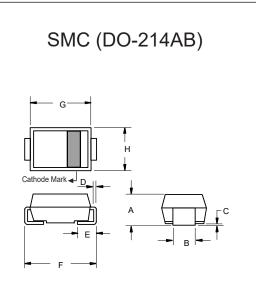


Features

- 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)
- High Current Capability
- For Surface Mount Application

Maximum Ratings @ 25°C (Unless Otherwise Specified)

		Value							
Parameter	Symbol	SK 52L	SK 53L	SK 54L	SK 55L	SK 56L	SK 58L	SK 510L	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V _{RWM}	20	30	40	50	60	80	100	V
DC Blocking Voltage	V_{R}								
RMS Reverse Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Average Rectified Forward Current @ $T_L=90^{\circ}C$	I _{F(AV)}				5				A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	100			А				
I²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	41.5			A²s				



5 Amp

Schottky Rectifier

20 to 100 Volts

	DIMENSIONS					
DIM INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE	
А	0.079	0.103	2.00	2.62		
В	0.108	0.128	2.75	3.25		
С	0.002	0.008	0.051	0.203		
D	0.006	0.012	0.152	0.305		
Е	0.030	0.060	0.76	1.52		
F	0.305	0.320	7.75	8.13		
G	0.260	0.280	6.60	7.11		
Н	0.220	0.245	5.59	6.22		

Internal Structure

Marking code Part Number

SK52L

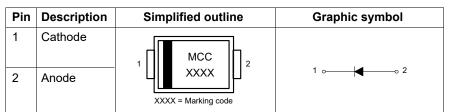
SK53L

SK54L

SK55L SK56L

SK58L

SK510L



Marking Code

SK52

SK53 SK54

SK55

SK56

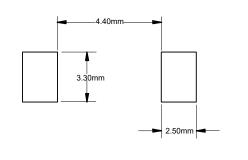
SK58

SK510

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.







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		16		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		65		°C/W

Note:

1.Mounted on P.C.B. with 16mm*16mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SK52L~SK54L	VF	I _F =5A;TJ=25°C			0.55	
SK55L~SK56L		IF=5A;T _J =25°C			0.75	V
SK58L~SK510L		IF=5A;TJ=25°C			0.85	
Reverse Current						
SK52L~SK56L	I _R	at Rated V _R ;T _J =25°C			0.1	
		at Rated V _R ;T _J =125°C			50	mA
SK58L~SK510L		at Rated V _R ;T _J =25°C			0.01	
		at Rated V _R ;T _J =125°C			10	
Junction Capacitance						
SK52L~SK54L	CJ	V _R =4V;f=1MHz;T _J =25°C		275		
SK55L~SK56L				195		pF
SK58L~SK510L				135		



Curve Characteristics

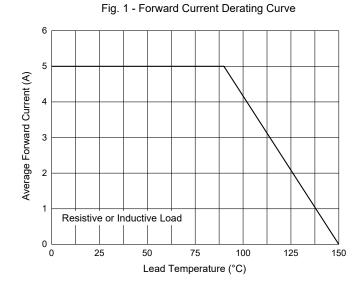


Fig. 3 - Typical Forward Characteristics

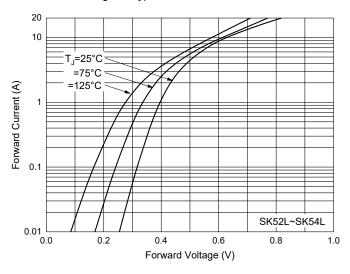
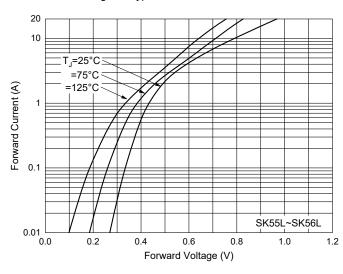


Fig. 5 - Typical Forward Characteristics



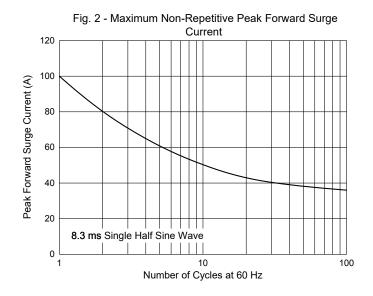


Fig. 4 - Typical Reverse Leakage Characteristics

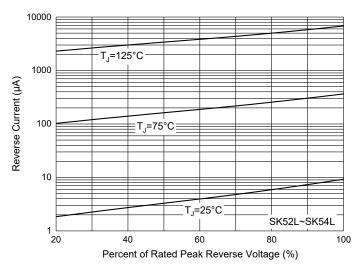
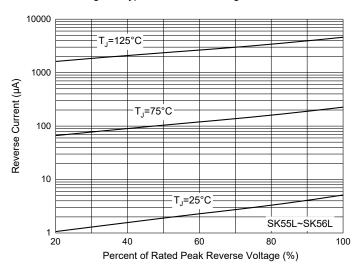
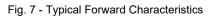


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics



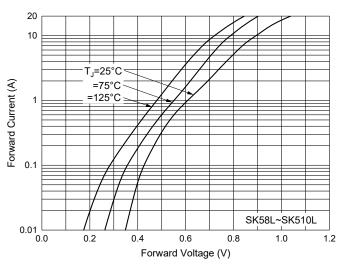
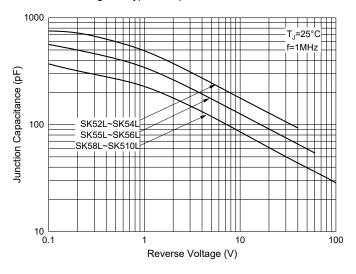


Fig. 9 - Typical Capacitance Characteristics



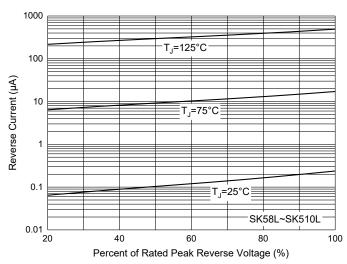


Fig. 8 - Typical Reverse Leakage Characteristics



Ordering Information

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

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