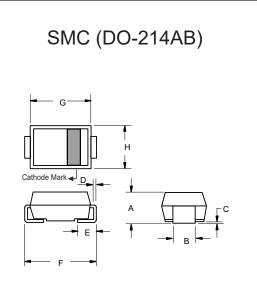


Features

- 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 INCH		HES	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

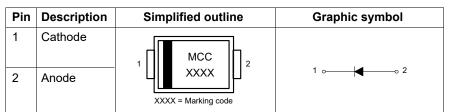
SK53L

SK54L

SK55L SK56L

SK58L

SK510L



Marking Code

SK52

SK53

SK54 SK55

SK56

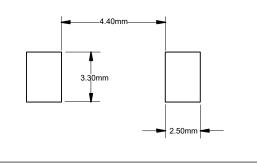
SK58

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.

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		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	IIIA
		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

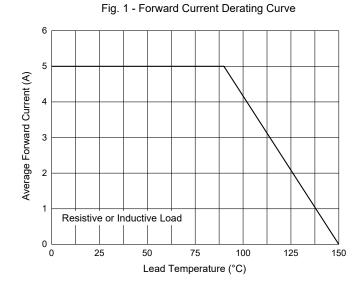


Fig. 3 - Typical Forward Characteristics

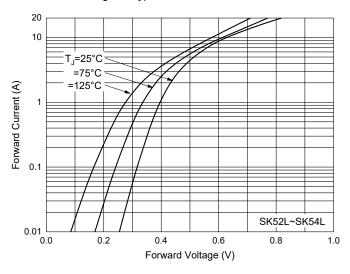
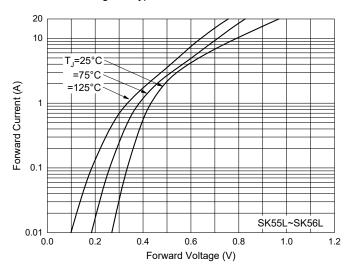


Fig. 5 - Typical Forward Characteristics



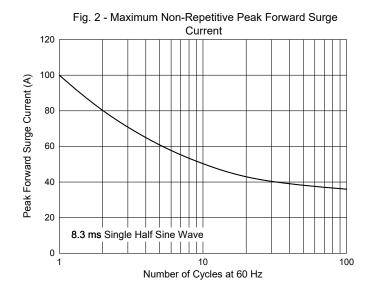


Fig. 4 - Typical Reverse Leakage Characteristics

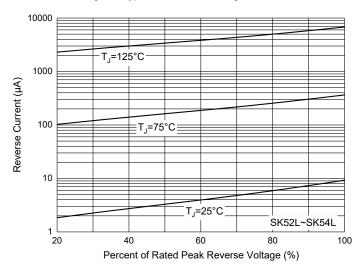
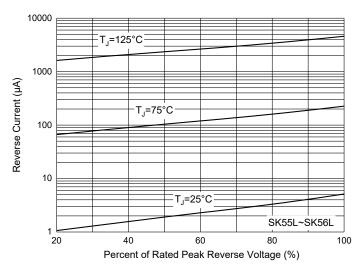


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics

Fig. 7 - Typical Forward Characteristics

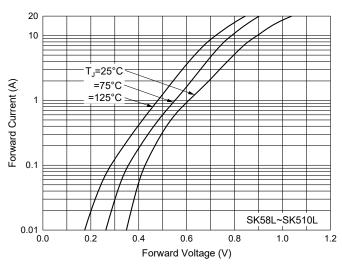
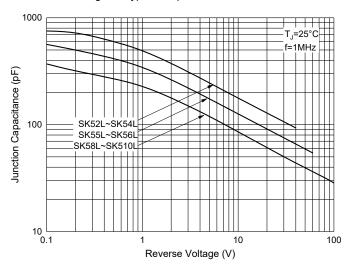
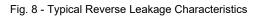
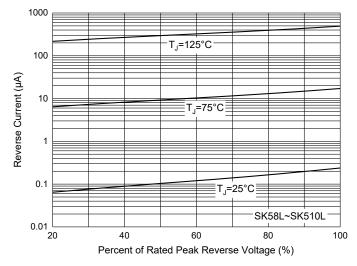


Fig. 9 - Typical Capacitance Characteristics









Ordering Information

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

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