

Features

- Halogen Free. "Green" Device (Note 1)
- Fully Automotive Qualified to AEC-Q101
- Low Profile Package
- High Surge 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)

		Va		
Parameter	Symbol	SK210Q-L	SK220Q-L	Unit
Peak Repetitive Reverse Voltage	V _{RRM}			
Working Peak Reverse Voltage	V _{RWM}	100	200	V
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{RMS}	70	140	V
Average Rectified Forward Current @ T _L =135°C	I _{F(AV)}	2		A
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	75		A
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	23.34		A ² s

Marking code

Part Number	Marking code	
SK210Q-L	SK210	
SK220Q-L	SK220	

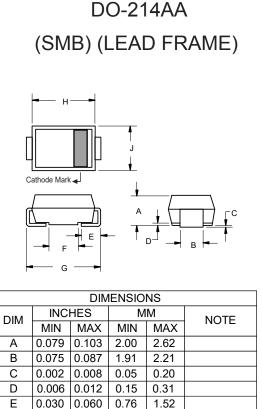
Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	cathode		
2	anode	XXXX = Marking code YYWW = Date Code	1 oo 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.

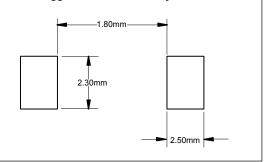
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

2 Amp Surface Mount Schottky Rectifier 100 to 200 Volts



C	0.002	0.000	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		-55		175	°C
T _{stg}	Storage Temperature Range		-55		175	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		22		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		63		°C/W

Note:

1.Mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SK210Q-L	V _F	I _F =2A;T _J =25°C		0.77	0.80	
		I _F =2A;T _J =125°C		0.62	0.66	V
SK220Q-L		I _F =2A;T _J =25°C		0.82	0.90	
		I _F =2A;T _J =125°C		0.68	0.75	
Reverse Current						
SK210Q-L	I _R	at Rated V _R ;T _J =25°C			5	
		at Rated V _R ;T _J =125°C			150	uA
SK220Q-L		at Rated V _R ;T _J =25°C			5	uA
		at Rated V_R ;T _J =125°C			150	
Junction Capacitance						
SK210Q-L	CJ	V _R =4V;f=1MHz;T _J =25°C		62		pF
SK220Q-L				40		



Curve Characteristics



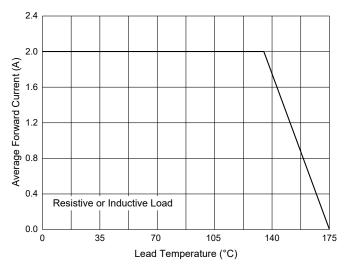


Fig. 3 - Typical Forward Characteristics

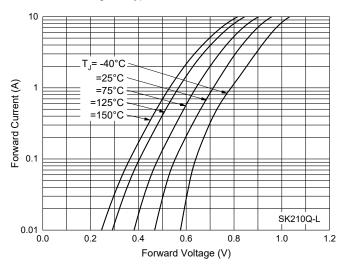
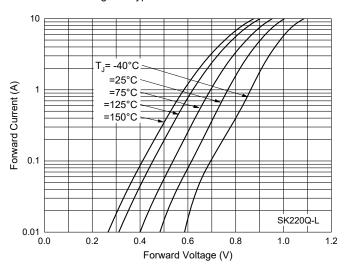
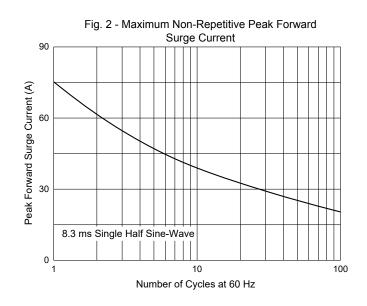
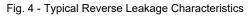


Fig. 5 - Typical Forward Characteristics







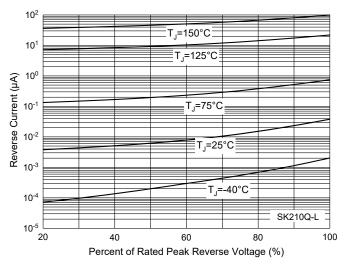
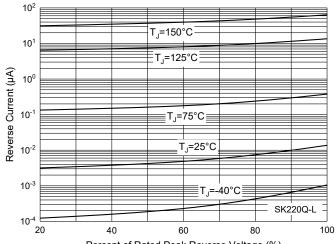


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics

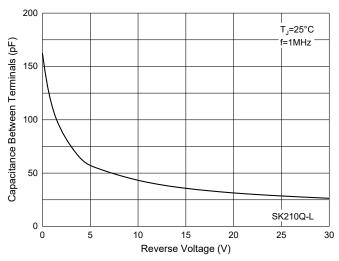


Fig. 7 - Capacitance Characteristics

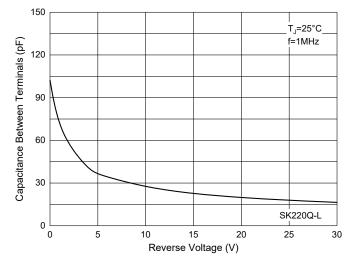


Fig. 8 - Capacitance Characteristics



Ordering Information

Device	Packing	
SK210Q-LTP ~ SK220Q-LTP	Tape&Reel:3Kpcs/Reel	

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