

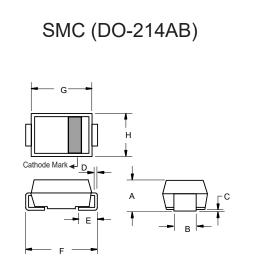
Features

- 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)

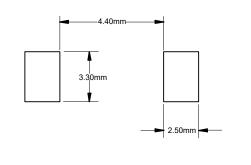
3 Amp Surface Mount Schottky Rectifier 100 to 200 Volts

		Val		
Parameter	Symbol	SK310Q	SK320Q	Unit
Peak Repetitive Reverse Voltage	V _{RRM}			
Working Peak Reverse Voltage	V _{RWM} 100 20		200	V
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{RMS}	70	140	V
Average Rectified Forward Current @ T _L =130°C	I _{F(AV)}	3		А
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	80 /		A
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	26.56		



DIMENSIONS					
DIM		HES	M	М	NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	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	
E	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	

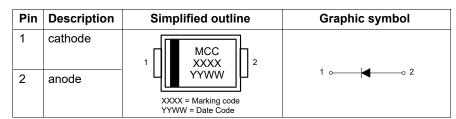
Suggested Solder Pad Layout



Marking code

Part Number	Marking code	
SK310Q	SK310	
SK320Q	SK320	

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.



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		17		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		55		°C/W

Note:

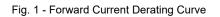
1.Mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter		Symbol	Test Conditions	Min	Тур	Мах	Unit
Forward Voltage							
	SK310Q	V _F	I _F =3A;TJ=25°C		0.76	0.80	
			I _F =3A;T _J =125°C		0.63	0.70	V
	SK320Q		I _F =3A;T _J =25°C		0.82	0.90	
			I _F =3A;T _J =125°C		0.68	0.75	
Reverse Current							
	SK310Q	I _R	at Rated V _R ;T _J =25°C			5	
			at Rated V_R ;T _J =125°C			150	uA
	SK320Q		at Rated V _R ;T _J =25°C			5	
			at Rated V _R ;T _J =125°C			150	
Junction Capacitance							
	SK310Q SK320Q	CJ	V _R =4V;f=1MHz;T _J =25°C		100 60		pF



Curve Characteristics



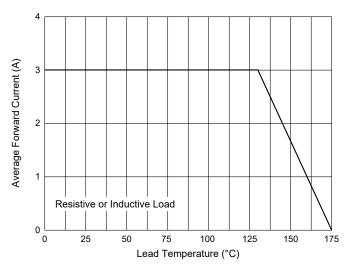


Fig. 3 - Typical Forward Characteristics

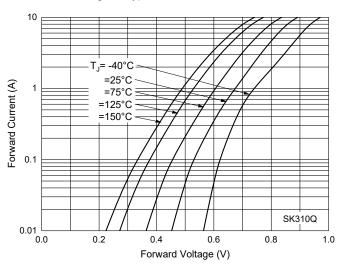
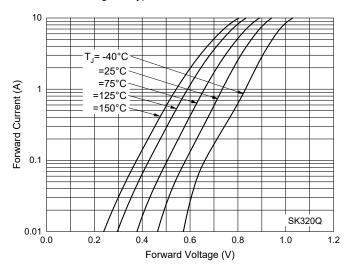
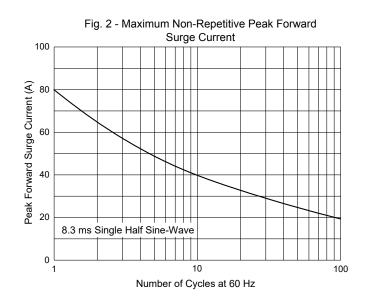


Fig. 5 - Typical Forward Characteristics







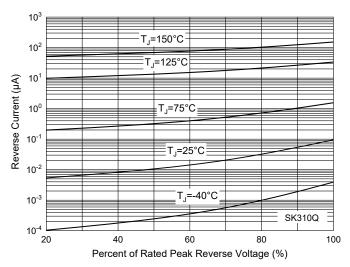
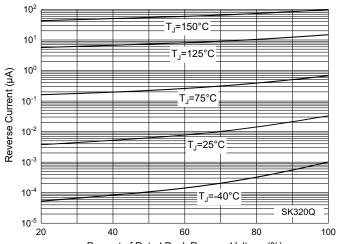


Fig. 6 - Typical Reverse Leakage Characteristics

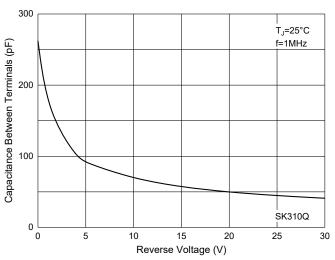


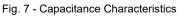
Percent of Rated Peak Reverse Voltage (%)

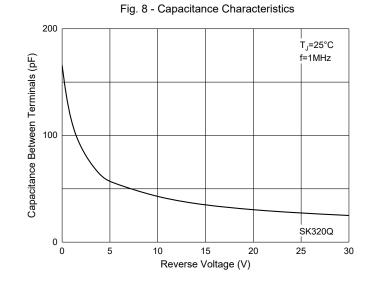
Downloaded from Arrow.com.



Curve Characteristics









Ordering Information

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

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