

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)

3 Amp Surface Mount Schottky Rectifier 40 to 60 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

		Val	lue	
Parameter	Symbol	SK34Q	SK36Q	Unit
Peak Repetitive Reverse Voltage	V _{RRM}			
Working Peak Reverse Voltage	V _{RWM}	40	60	V
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{RMS}	28	42	V
Average Rectified Forward Current @ T _L =115°C	I _{F(AV)}	3	3	А
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	8	0	А
Current Squared Time @ 1ms≤t≤8.3ms		26.56		A ² s

Marking code

Part Number	Marking code
SK34Q	SK34
SK36Q	SK36

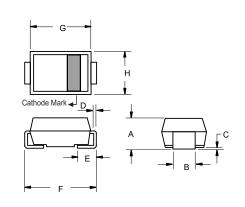
Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	cathode	MCC XXXX 2	
2	anode	XXXX = Marking code YYYWW = Date Code	1 o 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.

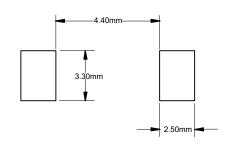
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

SMC (DO-214AB)



DIMENSIONS					
DIM	INC	HES	MM		NOTE
DIIVI	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	
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	

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	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		17		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		55		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter		Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage							
	SK34Q	V _F	$I_F=3A;T_J=25^{\circ}C$		0.48	0.50	
			$I_F=3A;T_J=125$ °C		0.41	0.45	V
	SK36Q		I _F =3A;T _J =25°C		0.60	0.70	
			I _F =3A;T _J =125°C		0.54	0.63	
Reverse Current							
	SK34Q	I _R	at Rated V _R ;T _J =25°C			0.1	mA
			at Rated V _R ;T _J =125°C			30	
	SK36Q		at Rated V _R ;T _J =25°C			0.1	
			at Rated V _R ;T _J =125°C			10	
Junction Capacitance							
	SK34Q SK36Q	Сл	$V_R=4V; f=1MHz; T_J=25$ °C		150 132		pF

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



Curve Characteristics

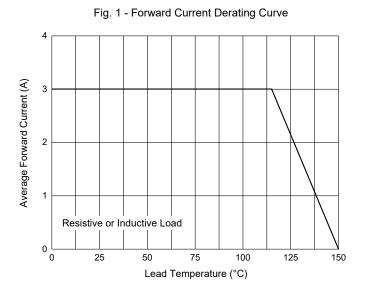


Fig. 3 - Typical Forward Characteristics

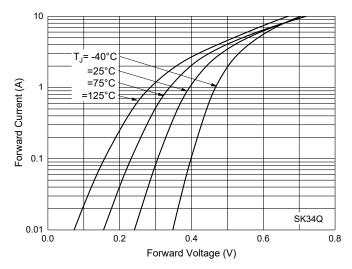


Fig. 5 - Typical Forward Characteristics

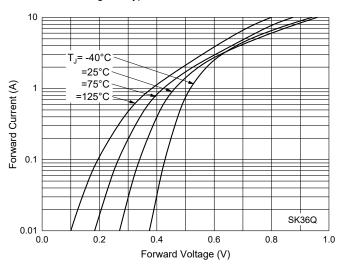


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

(Y) 80

(B) 80

(B) 80

(B) 80

(C) 80

(B) 80

(C) 80

(D) 80

(E) 80

(E

Fig. 4 - Typical Reverse Leakage Characteristics

Number of Cycles at 60 Hz

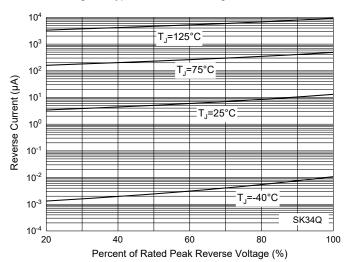
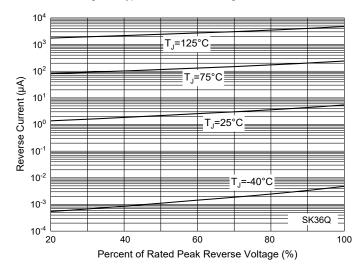
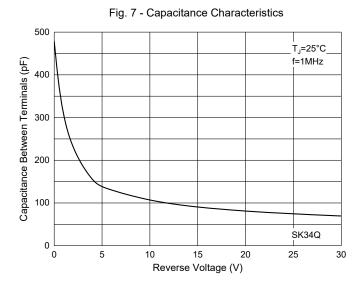


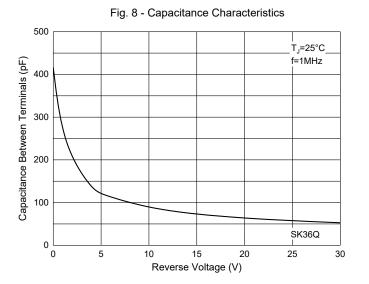
Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics





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Ordering Information

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

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