

Features

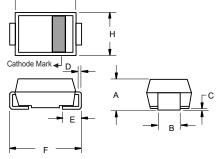
- Halogen Free. "Green" Device (Note 1)
- Fully Automotive Qualified to AEC-Q101
- Low Profile Package
- High Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

3 Amp Surface Mount Schottky Rectifier 40 to 60 Volts

SMC (DO-214AB)

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 I²t		26.56		A ² s



DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOIE	
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		

Marking code

Part Number	Marking code
SK34Q	SK34
SK36Q	SK36

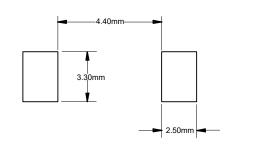
Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	cathode	MCC XXXX 2	
2	anode	XXXX = Marking code YYWW = Date Code	1 0 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.

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		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

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



Curve Characteristics

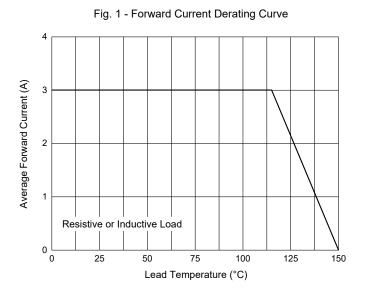


Fig. 3 - Typical Forward Characteristics

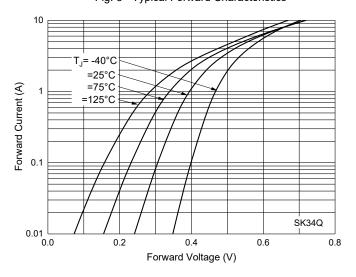
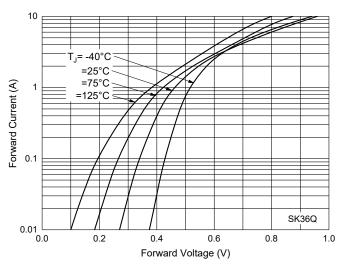


Fig. 5 - Typical Forward Characteristics



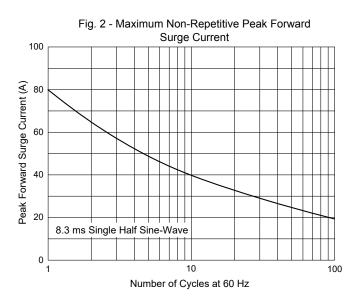


Fig. 4 - Typical Reverse Leakage Characteristics

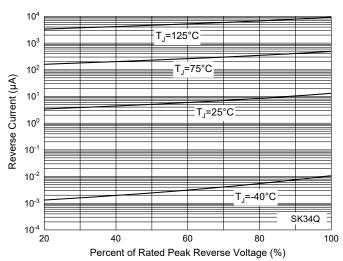
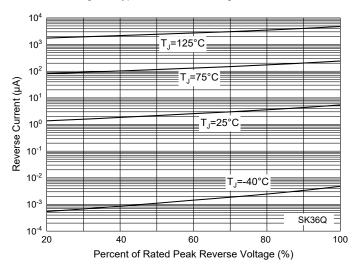


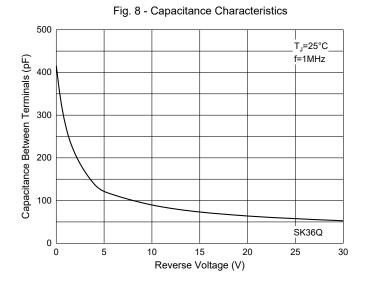
Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics

Fig. 7 - Capacitance Characteristics 500 T_J=25°C Capacitance Between Terminals (pF) f=1MHz 400 300 200 100 SK34Q 0 5 0 10 25 15 20 30 Reverse Voltage (V)





Ordering Information

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

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