

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)

Parameter	Symbol	Value		Unit
		SK34AFLQ	SK36AFLQ	
Peak Repetitive Reverse Voltage	V_{RRM}	40	60	V
Working Peak Reverse Voltage	V_{RWM}			
DC Blocking Voltage	V_R			
RMS Reverse Voltage	V_{RMS}	28	42	V
Average Rectified Forward Current @ $T_L=110^\circ\text{C}$	$I_{F(AV)}$	3		A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	80		A
Current Squared Time @ $1\text{ms} \leq t \leq 8.3\text{ms}$	I^2t	26.56		A^2s

Marking Code

Part Number	Marking Code
SK34AFLQ	SK34A
SK36AFLQ	SK36A

Internal Structure

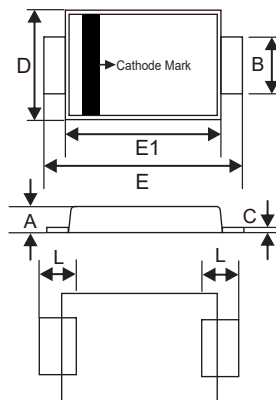
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	<p>XXXX = Marking Code YYWW = Date Code</p>	
2	Anode		

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.

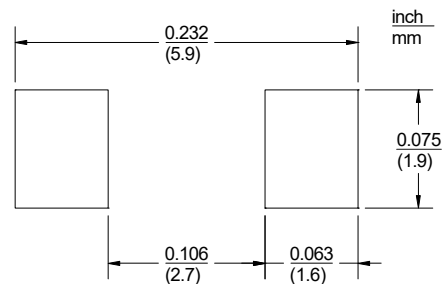
3 Amp Surface Mount Schottky Rectifier 40 to 60 Volts

DO-221AC(SMA-FL)



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.035	0.049	0.90	1.25	
B	0.049	0.065	1.25	1.65	
C	0.004	0.016	0.10	0.40	
D	0.089	0.116	2.25	2.95	
E	0.173	0.220	4.40	5.60	
E1	0.126	0.181	3.20	4.60	
L	0.020	0.059	0.50	1.50	

Suggested Solder Pad Layout



Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_J	Operating Junction Temperature Range		-55		150	°C
T_{stg}	Storage Temperature Range		-55		150	°C
$R_{th(J-L)}$	Thermal Resistance from Junction to Lead	Note 1		20		°C/W
$R_{th(J-A)}$	Thermal Resistance from Junction to Ambient	Note 1		70		°C/W

Note:

1. Mounted on P.C.B. with 8 mm x 8 mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage						
SK34AFLQ	V_F	$I_F=3A; T_J=25^{\circ}C$		0.48	0.50	V
		$I_F=3A; T_J=125^{\circ}C$		0.41	0.45	
SK36AFLQ		$I_F=3A; T_J=25^{\circ}C$		0.60	0.70	
		$I_F=3A; T_J=125^{\circ}C$		0.54	0.63	
Reverse Current						
SK34AFLQ	I_R	at Rated $V_R; T_J=25^{\circ}C$			0.1	mA
		at Rated $V_R; T_J=125^{\circ}C$			30	
SK36AFLQ		at Rated $V_R; T_J=25^{\circ}C$			0.1	
		at Rated $V_R; T_J=125^{\circ}C$			10	
Junction Capacitance						
SK34AFLQ	C_J	$V_R=4V; f=1MHz; T_J=25^{\circ}C$		150		pF
SK36AFLQ				132		

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

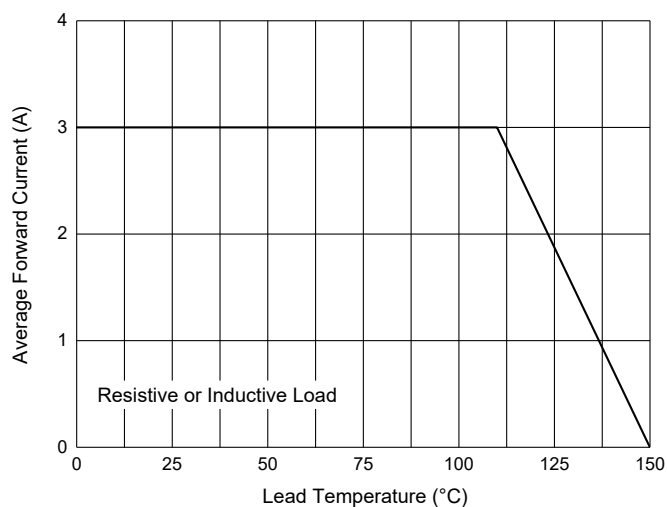


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

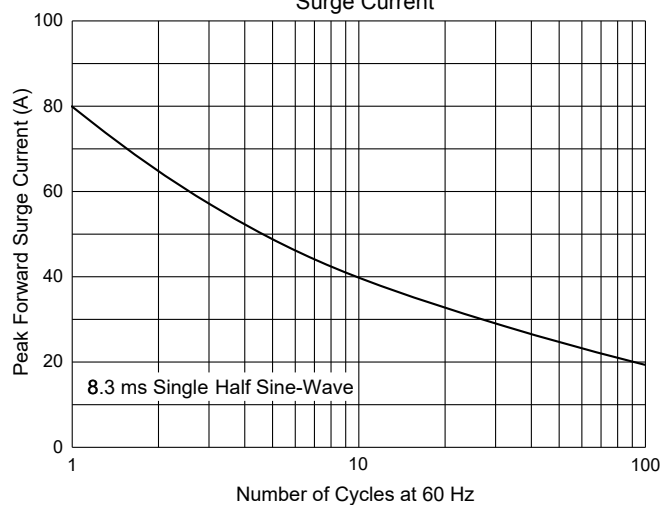


Fig. 3 - Typical Forward Characteristics

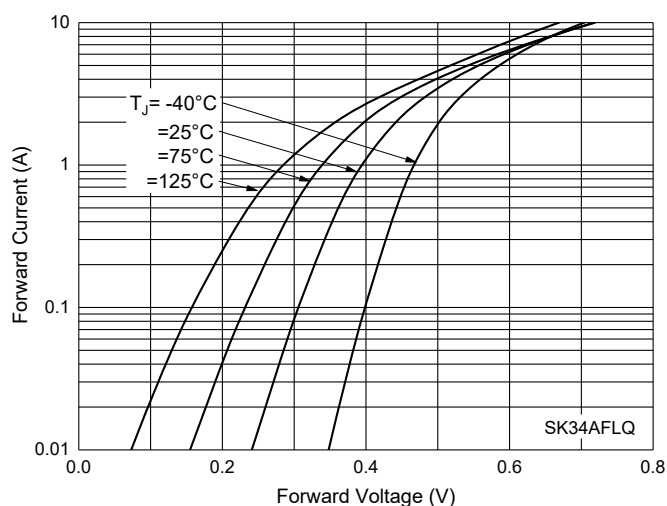


Fig. 4 - Typical Reverse Leakage Characteristics

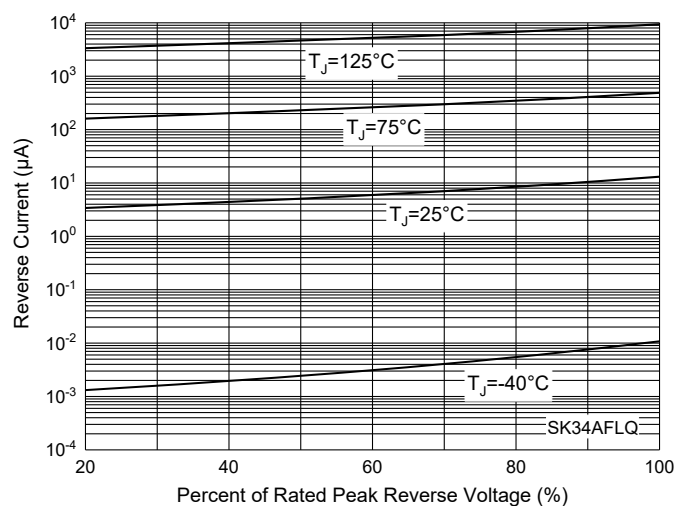


Fig. 5 - Typical Forward Characteristics

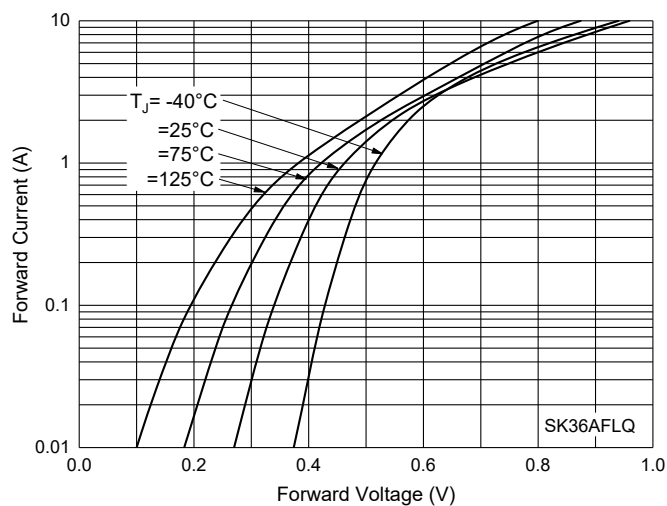
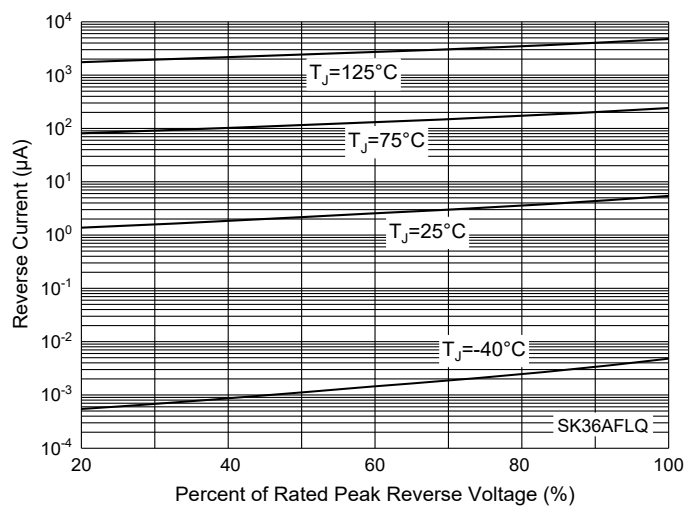


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Capacitance Characteristics

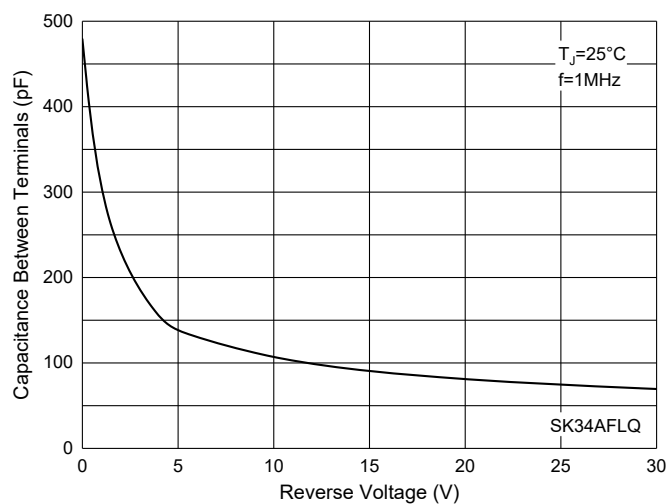
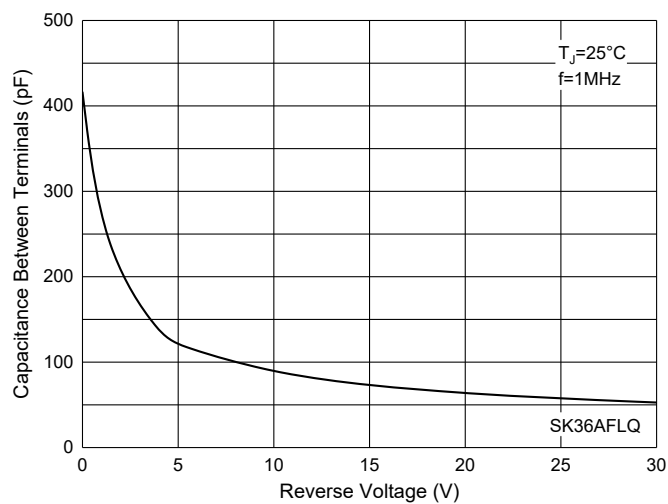


Fig. 8 - Typical Capacitance Characteristics



Ordering Information

Device	Packing
Part Number -TP	Tape&Reel:10Kpcs/Reel

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