

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)

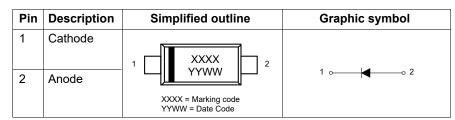
3 Amp Surface Mount Schottky Rectifier 40 to 60 Volts

		Va		
Parameter	Symbol	SMD34PLQ	SMD36PLQ	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 =80°C	I _{F(AV)}	3		A
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		A ² s

Marking code

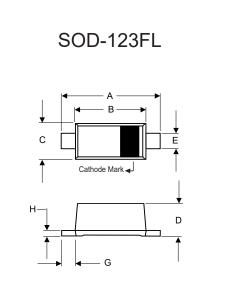
Part Number	Marking code	
SMD34PLQ	SM34	
SMD36PLQ	SM36	

Internal Structure



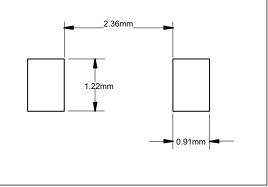
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.130	0.152	3.30	3.85	
В	0.100	0.122	2.55	3.10	
С	0.055	0.075	1.40	1.90	
D	0.035	0.053	0.90	1.35	
E	0.020	0.041	0.50	1.05	
G	0.010		0.25		
Н		0.010		0.25	

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		35		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		85		°C/W

Note:

1.Mounted on P.C.B. with 3mm*3mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SMD34PL	Q V _F	I _F =3A;T _J =25°C I _F =3A;TJ=125°C		0.48 0.41	0.50 0.45	V
SMD36PL	Q	I _F =3A;T _J =25°C I _F =3A;T _J =125°C		0.60 0.54	0.70 0.63	v
Reverse Current						
SMD34PL	Q I _R	at Rated V _R ;T _J =25°C			0.1	
SMD36PL	2	at Rated V _R ;T _J =125°C at Rated V _R ;T _J =25°C			30 0.1	mA
	×	at Rated $V_R;T_J=125^{\circ}C$			10	
Junction Capacitance						
SMD34PL SMD36PL	- U	V _R =4V;f=1MHz;T _J =25°C		150 132		pF



Curve Characteristics



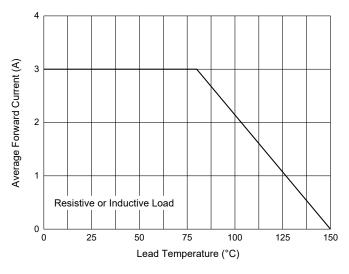


Fig. 3 - Typical Forward Characteristics

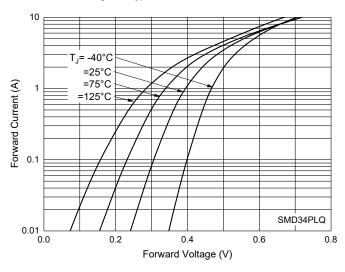
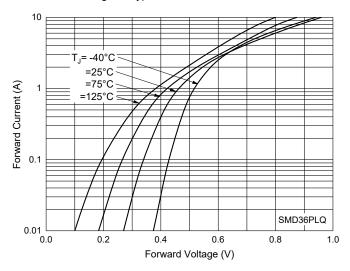


Fig. 5 - Typical Forward Characteristics



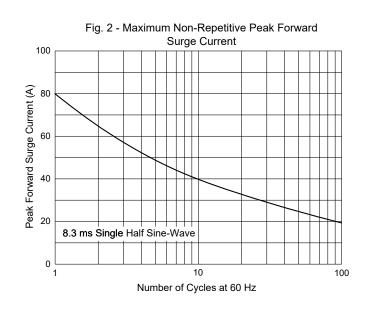


Fig. 4 - Typical Reverse Leakage Characteristics

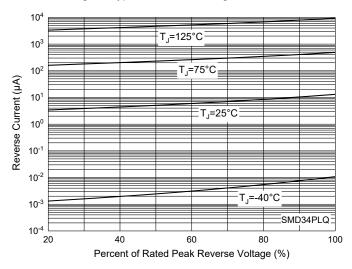
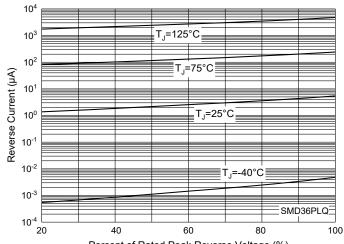


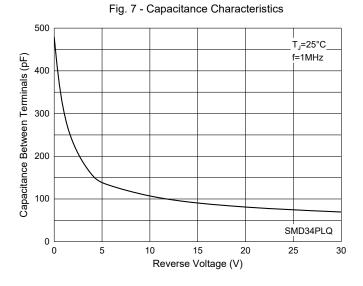
Fig. 6 - Typical Reverse Leakage Characteristics

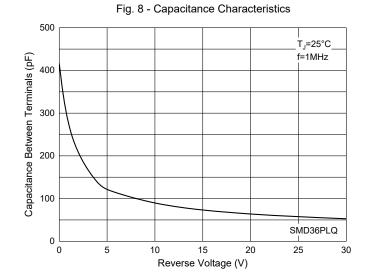


Percent of Rated Peak Reverse Voltage (%)



Curve Characteristics







Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:2.5Kpcs/Reel		

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