

Features

- · Low Forward Voltage
- High Efficiency
- Low Profile Package
- Low Thermal Resistance
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 2)
- Moisture Sensitivity Level 1

3 Amp Low VF Schottky Rectifier 40 to 100 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value				
rarameter	Oymbor	SL34HL	SL36HL	SL310HL	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}					
Working Peak Reverse Voltage	V_{RWM}	40	60	100	٧	
DC Blocking Voltage	V_R					
RMS Reverse Voltage	V_{RMS}	28	42	70	V	
Average Rectified Forward Current @ See Fig.1	I _{F(AV)}		3		Α	
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}		60		А	
Current Squared Time @1ms≤t≤8.3ms	l ² t		14.94		A ² s	

Marking code

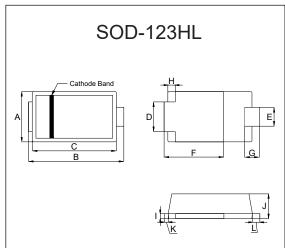
Part Number	Marking Code
SL34HL	L34
SL36HL	L36
SI 310HI	1 310

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	1 XXXX 2	
2	Anode	XXXX = Marking Code	1 0 2

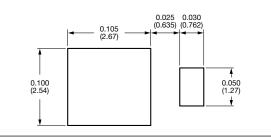
Note:

- 1. High temperature solder exemption applied, see EU directive annex 7a.
- 2. Halogen free "Green" products are defined as those which contain <900ppm bromine,
- <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



DIMENSIONS						
DIM	INC	HES	M	IM	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.074	0.086	1.88	2.18		
В	0.146	0.157	3.70	4.00		
С	0.041	0.053	3.19	3.61		
D	0.024	0.024 0.036		1.35		
Е	0.087	0.102	0.61	0.91		
F	0.016	0.031	2.20	2.60		
G	0.012	0.000	0.40	0.80		
Н	0.012		0.30		REF	
1	0.004	0.012	0.10	0.30		
J	0.033	0.045	0.85	1.15		
K	0.000	0.012	0.00	0.30		
L	0.006 0.018		0.15	0.45		

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		18		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		80		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

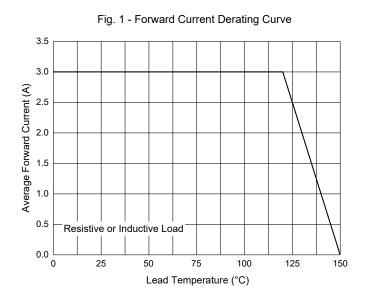
Parameter		Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage							
	SL34HL	V _F	I _F =3A;T _J =25°C		0.41	0.45	
	SL36HL				0.45	0.50	V
	SL310HL				0.55	0.60	
Reverse Current							
		I _R	at Rated V _R ;T _J =25°C			0.1	mA
			at Rated V _R ;T _J =125°C			20	IIIA
Junction Capacitance							
	SL34HL	CJ	$V_R=4V; f=1MHz; T_J=25$ °C		205		
	SL36HL				165		pF
	SL310HL				305		

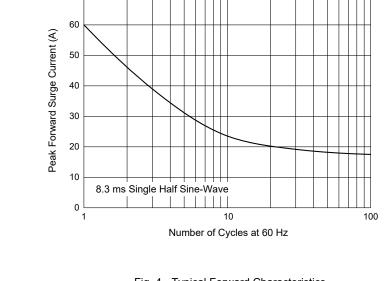
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^{1.}Mounted on P.C.B. with 5mm*5mm copper pad areas, Rth_(J-L) is measured at the terminal of cathode band.



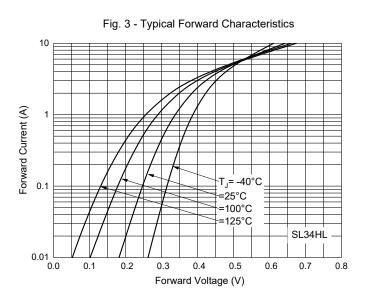
Curve Characteristics

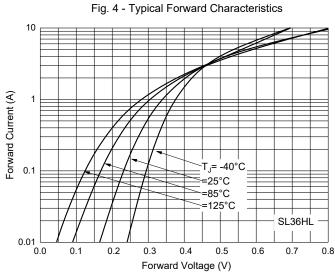


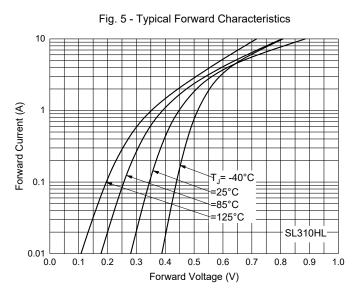


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Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current







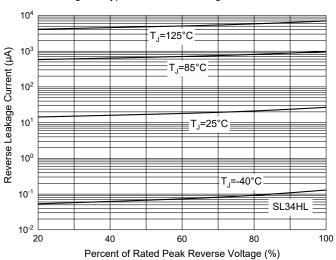
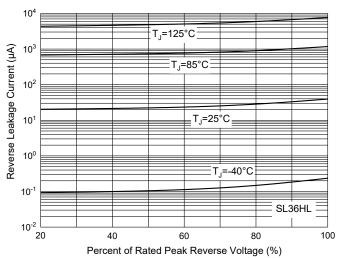


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics



10⁴ 10³ Reverse Leakage Current (µA) 10^{2} T_J=85°C 10¹ 10⁰ T_J=25°C≣ 10⁻¹ 10⁻² T₁=-40°C 10⁻³ SL310HL 10-4 20 100 40 60 80 Percent of Rated Peak Reverse Voltage (%)

Fig. 8 - Typical Reverse Leakage Characteristics

Fig. 9 - Typical Capacitance Characteristics

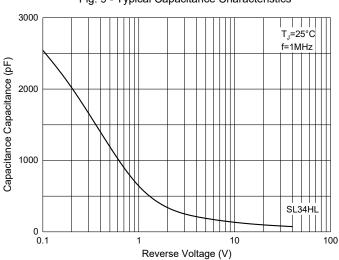


Fig. 10 - Typical Capacitance Characteristics

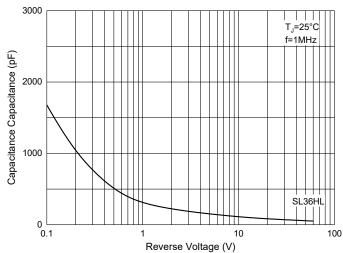
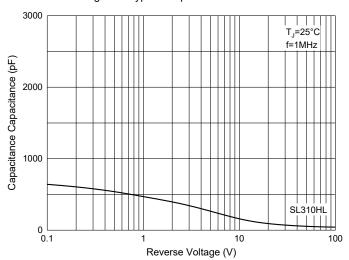


Fig. 11 - Typical Capacitance Characteristics





Ordering Information

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

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