

Features

- Low Profile Package
- High Efficiency
- 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

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Demonstern	Querra ha d	Value				11
Parameter	Symbol	SMD 24HL	SMD 26HL	SMD 210HL	SMD 220HL	Unit
Peak Repetitive Reverse Voltage	V _{RRM}					
Working Peak Reverse Voltage	V_{RWM}	40	60	100	200	V
DC Blocking Voltage	V _R					
RMS Reverse Voltage	V _{RMS}	28	42	70	140	V
Average Rectified Forward Current @ See Fig.1	I _{F(AV)}	2				A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	50			А	
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.375			A ² s	

Marking code

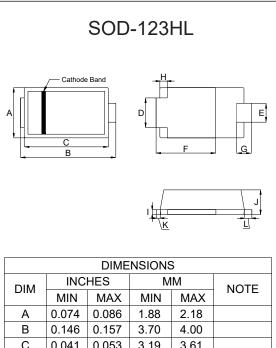
Part Number	Marking code
SMD24HL	D24
SMD26HL	D26
SMD210HL	D210
SMD220HL	D220

Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	Cathode		
2	Anode	XXXX = Marking code	1 oo 2

Note:

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



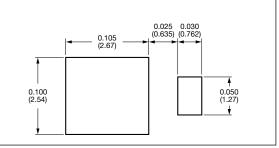
2 Amp

Schottky Rectifier

40 to 200 Volts

С 0.041 0.053 3.19 3.61 D 0.024 0.036 1.05 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 0.30 REF н 0.012 0.004 0.10 Т 0.012 0.30 J 0.033 0.045 0.85 1.15 0.000 0.012 0.00 0.30 Κ 0.006 L 0.018 0.15 0.45

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range	SMD24HL	-55		125	°C
TJ	Operating Junction Temperature Range	SMD26HL~SMD220HL	-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		80		°C/W

Note:

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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage SMD24HL	V _F	I _F =2A;TJ=25°C			0.50	
SMD26HL SMD210HL SMD220HL					0.70 0.85 0.90	V
Reverse Current SMD24HL~SMD26HL SMD210HL~SMD220HL	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$ at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			0.1 20 0.01 5	mA
Junction Capacitance SMD24HL SMD26HL SMD210HL SMD220HL	CJ	V _R =4V;f=1MHz;T _J =25°C		125 90 60 50		pF



Curve Characteristics

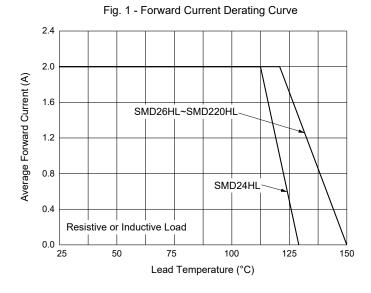


Fig. 3 - Typical Forward Characteristics

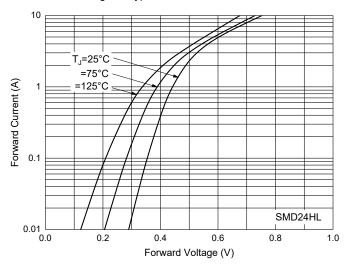
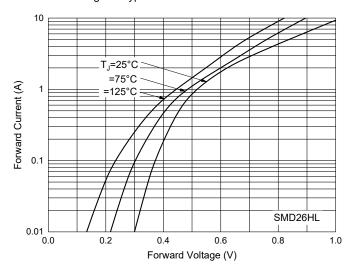


Fig. 5 - Typical Forward Characteristics



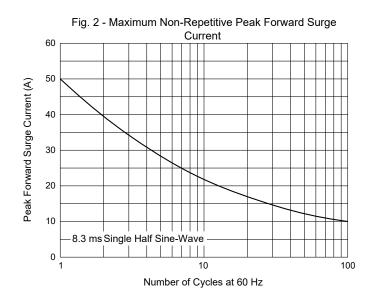


Fig. 4 - Typical Reverse Leakage Characteristics

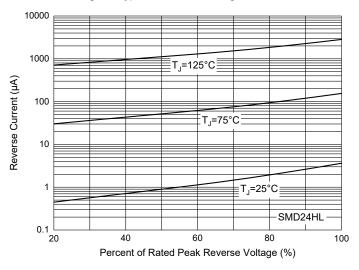
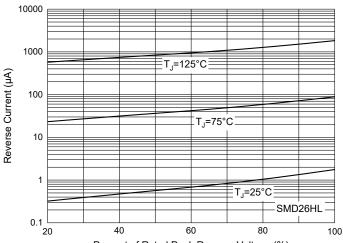


Fig. 6 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)





•M•C•C

Curve Characteristics

Fig. 7 - Typical Forward Characteristics

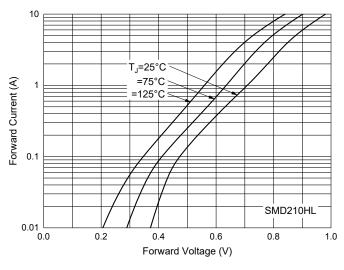


Fig. 9 - Typical Forward Characteristics

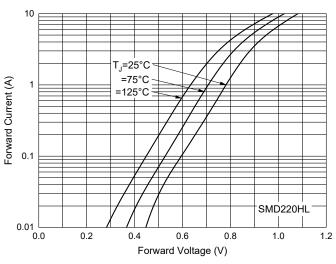
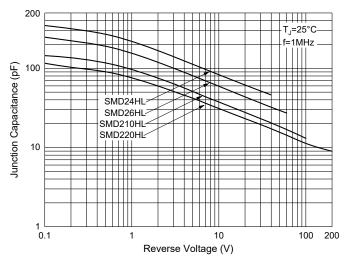


Fig. 11 - Typical Capacitance Characteristics



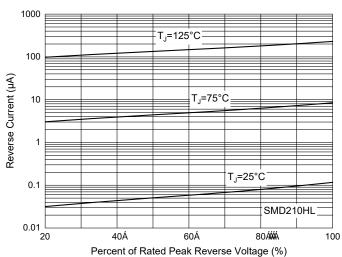
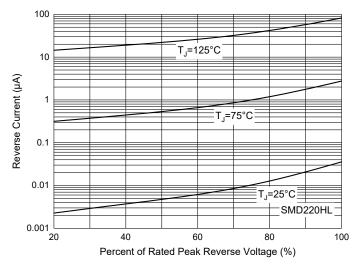


Fig. 8 - Typical Reverse Leakage Characteristics

Fig. 10 - Typical Reverse Leakage Characteristics





Ordering Information

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

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