

Features

- Halogen Free. "Green" Device (Note 1)
- Low Power Losses, High Efficiency
- Low profile package
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V_{RMS}	28	V
Average Rectified Forward Current @ $T_L=95^\circ\text{C}$	$I_{F(AV)}$	2	A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	35	A
Non-Repetitive Peak Surge Current @ 1ms Square Wave		70	
Current Squared Time @ $1\text{ms} \leq t \leq 8.3\text{ms}$	I^2t	5.08	A^2s

Internal Structure

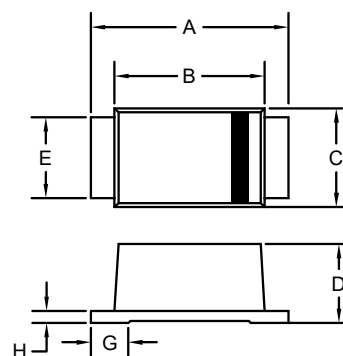
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode		

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.

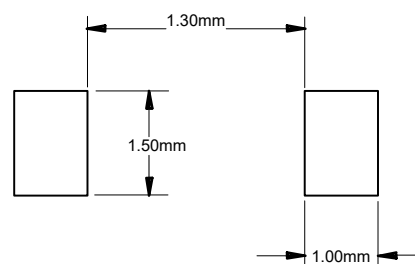
2 Amp Schottky Rectifier 40 Volts

SOD-323HL



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.091	0.106	2.30	2.70	
B	0.067	0.083	1.70	2.10	
C	0.041	0.057	1.05	1.45	
D	0.031	0.047	0.80	1.20	
E	0.035	0.045	0.90	1.15	
G	0.010	0.028	0.25	0.70	
H	0.002	0.010	0.05	0.25	

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
$R_{th(J-C)}$	Thermal Resistance from Junction to Case	Note 1		45		°C/W
$R_{th(J-A)}$	Thermal Resistance from Junction to Ambient	Note 1		90		°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	Typ	Max	Unit
Forward Voltage	V_F	$I_F=2A; T_J=25^{\circ}C$		0.56	0.60	V
Reverse Current	I_R	at Rated $V_R; T_J=25^{\circ}C$ at Rated $V_R; T_J=125^{\circ}C$			0.05 20	mA
Junction Capacitance	C_J	$V_R=4V; f=1MHz; T_J=25^{\circ}C$		68		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

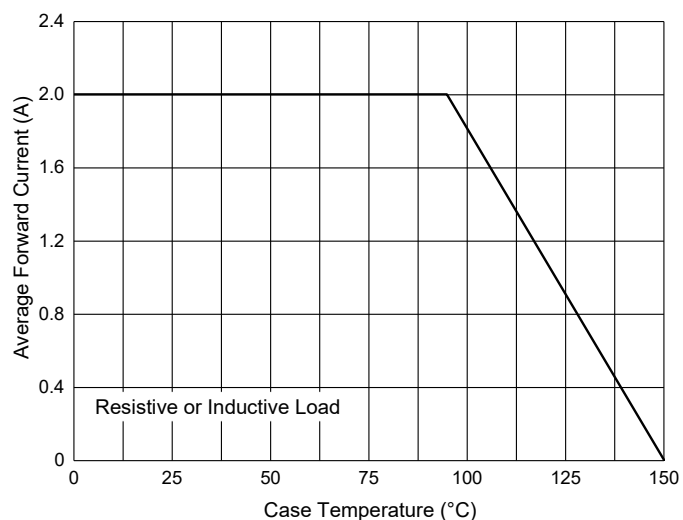


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

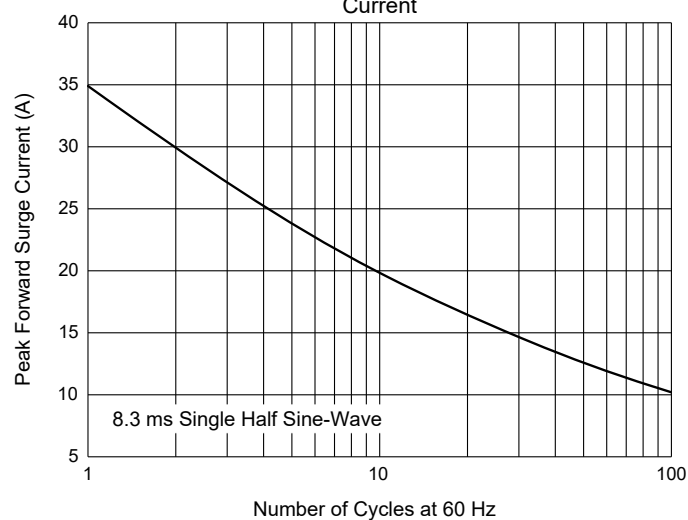


Fig. 3 - Typical Forward Characteristics

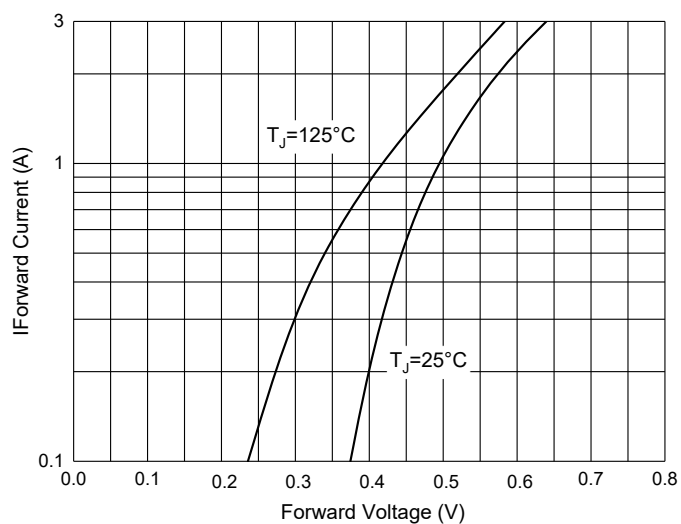
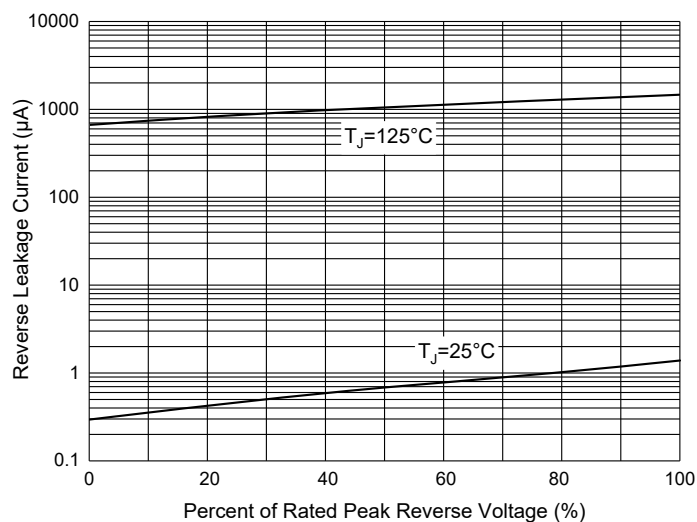


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
SS24HL-TP	Tape&Reel:2.5 Kpcs/Reel

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