

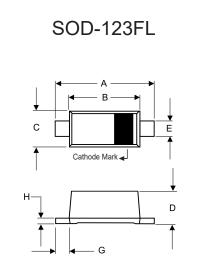
## Features

- Halogen Free. "Green" Device (Note 1)
- High Current Capability
- Low Forward Voltage
- 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)

# 3 Amp Schottky Rectifier 20 Volts

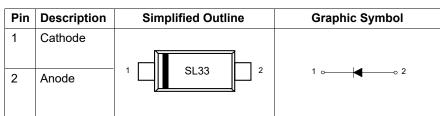
### Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>		
Working Peak Reverse Voltage	$V_{RWM}$	20	V
DC Blocking Voltage	$V_{R}$		
RMS Reverse Voltage	V <sub>RMS</sub>	14	V
Average Rectified Forward Current	I <sub>F(AV)</sub>	3	А
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I <sub>FSM</sub>	80	A
Current Squared Time @1ms≤t≤8.3ms	l <sup>2</sup> t	26.56	A <sup>2</sup> s



DIMENSIONS						
DIM	INC	HES	MM		NOTE	
Divi	MIN	MAX	MIN	MAX	NOTE	
A	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		

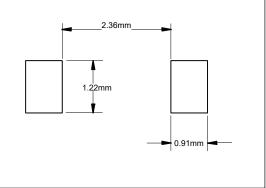
#### Internal Structure



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.

#### SUGGESTED SOLDER PAD LAYOUT





## Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		125	°C
T <sub>stg</sub>	Storage Temperature Range		-55		150	°C
Rth <sub>(J-L)</sub>	Thermal Resistance from Junction to Lead	Note 1		30		°C/W
Rth <sub>(J-A)</sub>	Thermal Resistance from Junction to Ambient	Note 1		90		°C/W

Note:

1.Mounted on P.C.B. with 5mm\*5mm copper pad areas.

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>R</sub> =0.5mA;T <sub>J</sub> =25°C	30			V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =0.1A;TJ=25°C I <sub>F</sub> =1A;TJ=25°C I <sub>F</sub> =3A;TJ=25°C		0.28 0.36 0.42	0.45	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =10V;T <sub>J</sub> =25°C V <sub>R</sub> =20V;T <sub>J</sub> =25°C		0.01 0.025	0.2	mA
Junction Capacitance	CJ	V <sub>R</sub> =4V;f=1MHz;T <sub>J</sub> =25°C		240		pF



## **Curve Characteristics**

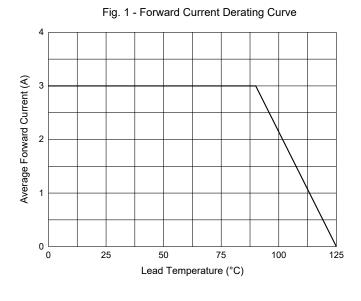


Fig. 3 - Typical Forward Characteristics

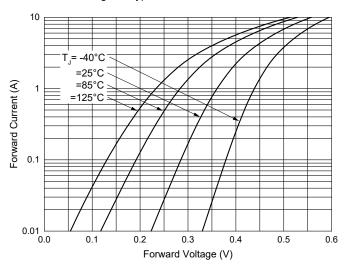
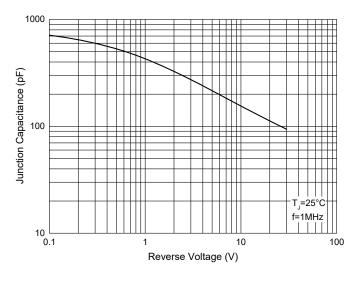


Fig. 5 - Typical Capacitance Characteristics



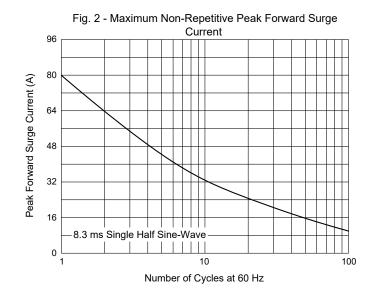
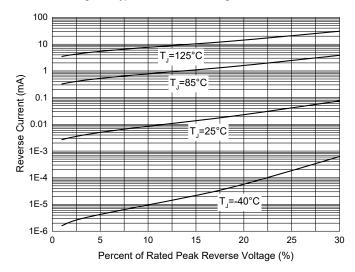


Fig. 4 - Typical Reverse Leakage Characteristics





### **Ordering Information**

Device	Packing		
SL32PL-TP	Tape&Reel:2.5Kpcs/Reel		

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