

## Features

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

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 85°C/W Junction to Ambient<sup>(Note 3)</sup>
- Typical Thermal Resistance: 20°C/W Junction to Lead<sup>(Note 3)</sup>

MCC Part Number	Device Marking	Peak Repetitive Reverse Voltage	RMS Reverse Voltage	DC Blocking Voltage
SL32PL	SL33	20V	14V	20V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

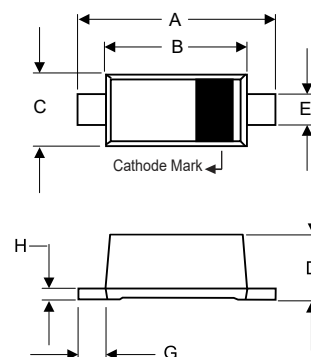
Average Forward Current	$I_{F(AV)}$	3.0A	$T_L = 125^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	80A	8.3ms, Half Sine
Instantaneous Forward Voltage	$V_F$	0.28V(Typ) 0.36V(Typ) 0.42V(Typ) 0.45V(Max)	$I_F=0.1\text{A}; T_J=25^\circ\text{C}$ $I_F=1.0\text{A}; T_J=25^\circ\text{C}$ $I_F=3.0\text{A}; T_J=25^\circ\text{C}$ $I_F=3.0\text{A}; T_J=25^\circ\text{C}$
Reverse Breakdown Voltage	$V_{BR}$	>30V	$I_R=0.5\text{mA}$
Instantaneous Reverse Current	$I_R$	10 $\mu\text{A}$ (Typ) 25 $\mu\text{A}$ (Typ) 0.2mA(Max)	$V_R=10\text{V}; T_J=25^\circ\text{C}$ $V_R=20\text{V}; T_J=25^\circ\text{C}$ $V_R=20\text{V}; T_J=25^\circ\text{C}$

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.
3. Thermal Resistance: Mounted on P.C.B with 3mm\*3mm copper pad areas.

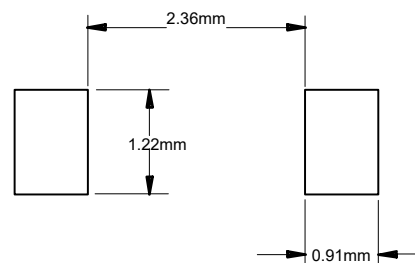
# 3 Amp Schottky Rectifier 20 Volts

## SOD-123FL



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.130	0.152	3.30	3.85	
B	0.100	0.122	2.55	3.10	
C	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	----	
H	----	0.010	----	0.25	

## SUGGESTED SOLDER PAD LAYOUT



## Curve Characteristics

Fig. 1 - Current Derating Curve

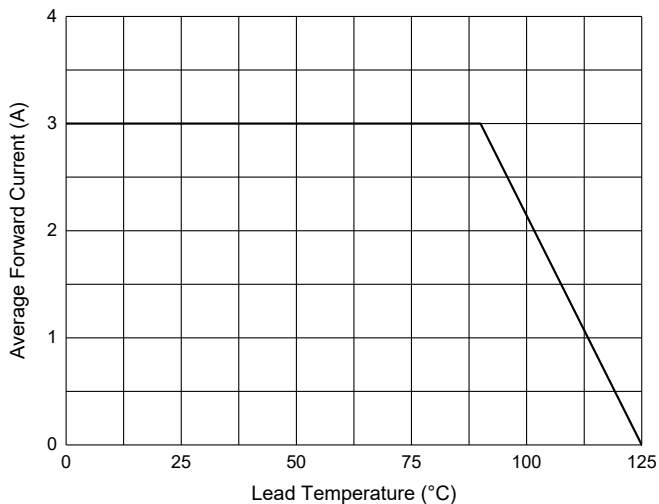


Fig. 2 - Capacitance Characteristics

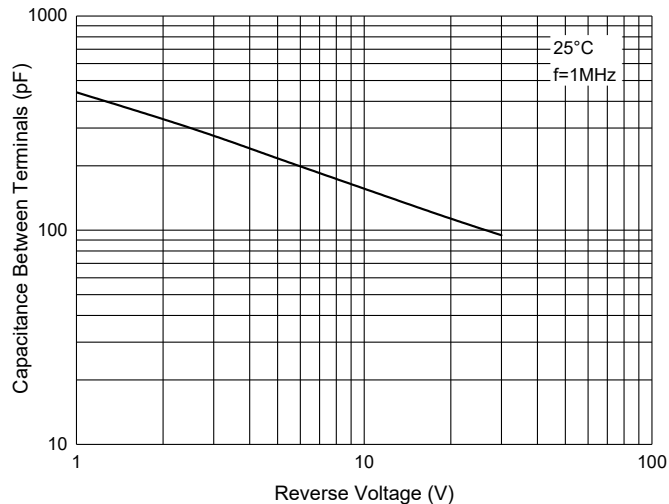


Fig. 3 - Forward Characteristics

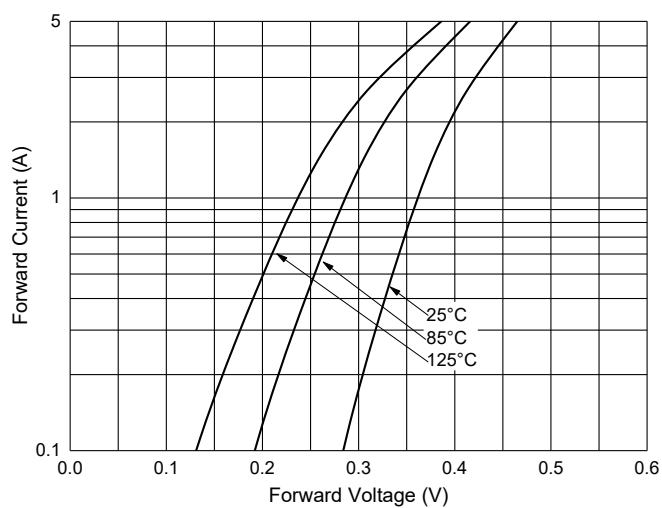
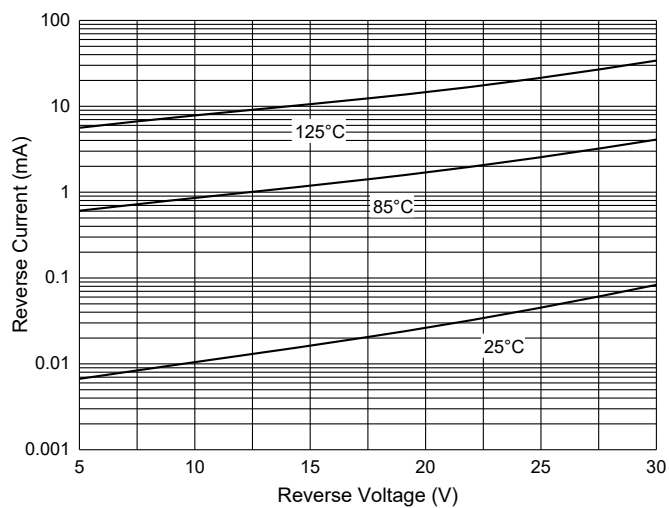


Fig. 4 - Reverse Characteristics



## Ordering Information

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

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