

## Electrostatic discharge Protection Devices(ESD)

### FEATURES

- Reverse working(Stand-off) voltages:5.0V
- Low leakage.
- Response time is typically<1ns.
- ESD Rating of Class 3(>16kV) per Human Body Model.
- IEC61000-4-2Level 4 ESD Protection.

### APPLICATIONS

- Designed to protect voltage sensitive components from ESD and transient.
- Case style:SOD-923molded plastic

SOD-882

## MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD)      Air      Contact Contact discharge	$V_{ESD}$	$\pm 15$ $\pm 8$	kV kV
ESD Voltage              Per Human Body Model		16	kV
Total Power Dissipation on FR-5 Board (Note 1) @ $T_A=25^\circ C$	$P_D$	400	mW
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to 150	$^\circ C$
Lead solder temperature range (10 Second Duration)	TL	260	$^\circ C$

1. FR-5 = 1.0 x 0.75 x 0.062 in.

## RATINGS AND CHARACTERISTIC CURVES

ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$  unless otherwise noted,  $V_F=0.9\text{V Max. @ } I_F=10\text{Ma}$  for all types)

Device	Marking	$V_{RWM}$ (V)	$I_R$ ( $\mu\text{A}$ ) @ $V_{RWM}$	$V_{BR}$ (V) @ $I_T$	$I_T$ (mA)	$I_{PP}$ (A)	$V_C$ (V) @ Max $I_{PP}$	@f MHZ	C (pF)
		Max (V)	Max( $\mu\text{A}$ )	Min(V)	(mA)		Max	Typ	Typ
ESDBL3V3P	C	3.3	1.0	5.0	1.0	1.0	10.5	102	15
ESDBL5V0P	E	5.0	1.0	5.8	1.0	1.0	12.5	107	15

1. Other voltage available upon request.
2.  $V_{BR}$  is measured with a pulse test current  $I_T$  at an ambient temperature of  $25^{\circ}\text{C}$

### PACKAGE INFORMATION

Device	Package	Shipping
ESDBL3V3P- --ESDBL5V0P	SOD-882	5000/Tape&Reel