

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}	± 15 ± 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 (μA) @ 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(μA)	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°C

PACKAGE INFORMATION

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