

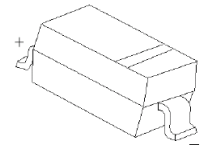
DESCRIPTION

The SESDBLC5V0 is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time provide best in class protection on designs that are exposed to ESD. Because of its small size, it is suited for use in cellular phones, MP3 players, digital cameras and many other portable applications where board space is at a premium.

FEATURES

- Reverse Working (stand-off) Voltage: 5.0 V
- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) Per Human Body Model
- IEC61000-4-2 Level 4 ESD Protection

SOD- 323


Marking Code: H

Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
IEC61000-4-2(ESD) Air Contact		± 25 ± 25	KV
ESD Voltage Per Human Body Model		16	KV
Per Machine Model		400	V
Total Power Dissipation on FR-5 Board (Note 1)	P_D	200	mW
Thermal Resistance Junction-to-Ambient	$R_{\theta JA}$	625	°C/W
Lead Solder Temperature – Maximum (10 Second Duration)	T_L	260	°C
Junction and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

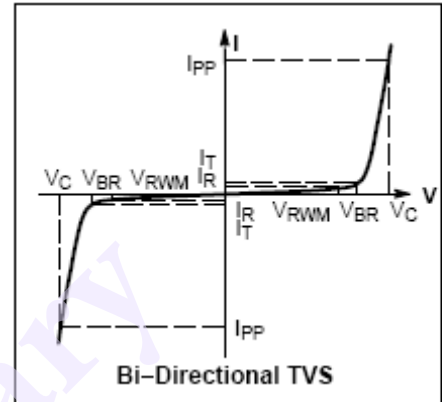
Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only.

Functional operation above the recommended. Operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

1. FR-5 = 1.0 x 0.75 x 0.62 in.

ELECTRICAL CHARACTERISTICS (Ta= 25°C unless otherwise noted)

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current


ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

Device*	Device Marking	V_{RWM} (V)	$I_R(\mu A)$ @ V_{RWM}	$V_{BR}(V)$ @ I_T (Note2)		I_T mA	V_C @ $I_{PP}=5A$ V	$C(pF)$ @ $V_R=0V, f=1MHz$	
		Max	Max	Min	Max			Typ	Max
SESDBLC5V0	H	5.0	0.1	5.8	7.8	1	12	11	12

*Other voltages available upon request.

2. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.

Ordering Information:

Device PN	Packing
SESDBLC5V0 -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

*****Disclaimer*****

WILLAS reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. WILLAS or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on WILLAS data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. WILLAS does not assume any liability arising out of the application or use of any product or circuit.

WILLAS products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of WILLAS. Customers using or selling WILLAS components for use in such applications do so at their own risk and shall agree to fully indemnify WILLAS Inc and its subsidiaries harmless against all claims, damages and expenditures.