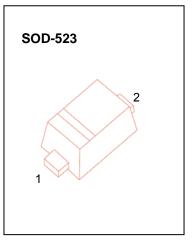


CESDBLC5V0D5 ESD Protection Diodes

DESCRIPTION

The CESDBLC5V0D5 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

Maximum Ratings @T_A=25℃

Parar	Symbol	Limits	Unit			
IEC61000-4-2(ESD)	Air		±25	КV		
	Contact		±25	ΓXV		
ESD voltage	Per Human Body Model		16	KV		
	Per Machine Model		400	V		
Total power dissipation on FR-5 t	PD	150	mW			
Thermal Resistance Junction-to-	R₀JA	833	°C/W			
Lead Solder Temperature - Maxi	TL	260	°C			
Junction and Storage temperature	T _{j,} T _{stg}	-55 ~ +150	ĉ			

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

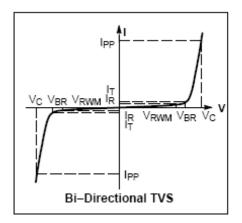
Functional operation above the Recommended. Operating Conditions is not implied. Extended exposure to

stresses above the Recommended Operating Conditions may affect device reliability.

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

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

Symbol	Parameter					
I _{PP}	Maximum Reverse Peak Pulse Current					
Vc	Clamping Voltage @ IPP					
V _{RWM}	Working Peak Reverse Voltage					
I _R	Maximum Reverse Leakage Current @ V _{RWM}					
V _{BR}	Breakdown Voltage @ I _T					
IT	Test Current					



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

Device*	Device Marking	V _{RWM} (V)	I _{R(µA)} @V _{RWM}		(Note2)		V _C @I _{PP} =5A	C(pF)@ V _R =0V,f=1MHz
		Max	Max	Min	Max	mA	V	Тур
CESDBLC5V0D5	BH	5.0	0.1	5.8	7.8	1.0	12	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.