

ESD PROTECTION DIODE

Discription

The FTVLL05BUL2 is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time ,make these parts ideal for ESD protection on designs where board space is at a premium. 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.

Applications

- Cellular phones audio
- MP3 players
- Digital cameras
- Portable applicationss
- mobile telephone

Features

- 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
- We declare that the material of product compliant with RoHS requirements and Halogen Free.

SOD882	



Ordering information

Device	Shipping			
FTVLL05BUL2	10000/Tape&Reel			

MAXIMUM RATINGS

Rating	Symbol	Value	Unit			
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±15 ± 8	kV kV			
ESD Voltage Per Human Body Model 16 kV						
Total Power Dissipation on FR-5 Board (Note 1)	PD	200	mW			
@ T _A =25						
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150				
Lead Solder Temperature – Maximum (10	TL	260				
Second Duration)						

Stresses exceeding Maximum Ratings may damage the device. Maximum Rating 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.

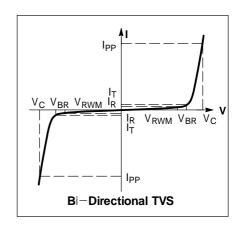
1. FR-5 = 1.0*0.75*0.62 in.



ELECTRICAL CHARACTERISTICS

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

Symbol	Parameter					
I _{PP}	Maximum Reverse Peak Pulse Current					
V _C	Clamping Voltage @ IPP					
V _{RWM}	Working Peak Reverse Voltage					
Ι _R	Maximum Reverse Leakage Current @ VRWM					
V _{BR}	Breakdown Voltage @ IT					
Ι _Τ	Test Current					
P _{pk}	Peak Power Dissipation					
С	Capacitance @ $VR = 0$ and $f = 1.0$ MHz					



ELECTRICAL CHARACTERISTICS

	V _{RWM} (V)	I _R (uA) @ V _{RWM}	V _{BR} (V) @ It (Note 2)	Ι _Τ	V _C (V) @ I _{PP} = 1A (Note 3)	V _C (V) @MAX I _{PP} (Note 3)	I_{PP}(A) (Note 3)	Р_{РК}(W) (Note 3)	C (pF)	
Device	Max	Max	Min	mA	Max	Max	Max	Max	Тур	Max
FTVLL05BUL2	5	0.5	6	1.0	12	20	4	80	0.15	0.2

Other voltage available upon request.

2. V_{BR} is measured with a pulse test current IT at an ambient temperature of 25 $^\circ\!\!C$

3. Surge current waveform per Figure 1.

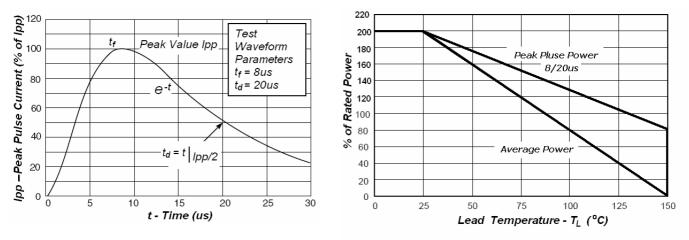


Fig1. Pulse Waveform

Fig2.Power Derating Curve



FTVLL05BUL2

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DIMENSION OUTLINE:

Unit:mm

