



LT3021

Tripolar Overvoltage Protection for Network Interfaces

Revision:B

General Description

The LT3021 is a low capacitance transient surge arrestor designed for protection of high debit rate communication network. Its low capacitance avoids distorsion of the signal as it has been designed for T1/E1 and Ethernet networks.

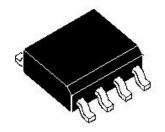
Applications

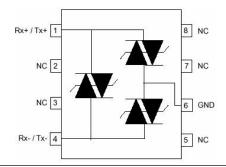
Dedicated to dataline protection, this device provides a tripolar protection function. It ensure the same protection capability with the same breakdown voltage in both common and differential modes.

Features

- Tripolar crowbar protection
- Low capacitance
- Repetitive peak pulse current: lpp=30A (10/1000µs)
- Low holding current: I_H=30mA

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Electrical Parameter

Symbol	Parameter					
V_{DRM}	Stand-off voltage					
I _{DRM}	Leakage current VDRM					
V_{BR}	Continuous reverse voltage					
V _{BO}	Breakover voltage					
I _H	Holding current					
I _{BO}	Breakover current					
lpp	Peak pulse current					
С	Capacitance					

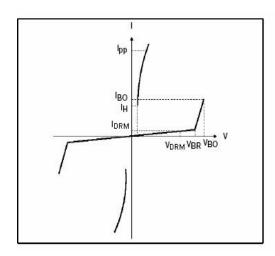
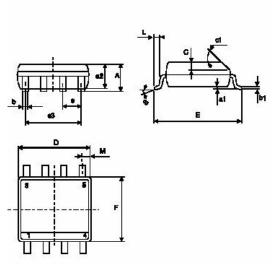


Fig1. LT3021 Characteristic Curve

V_{DRM}	I _{DRM}	V_{BO}	I _{BO}	V _T	Ι _Τ	l _Η	Со	lpp
Max.		Max.	Max.	Max.	Max.	Min.	Max.	(10/1000us)
V	uA	V	mA	V	А	mA	pF	Α
28	10	38	300	5	1	30	25	30

SO-8 MECHANICAL DATA



	DIMENSIONS									
REF.	Mi	llimetr	es	Inches						
	Min.	Тур.	Max.	Min.	Тур.	Max.				
Α			1.75		5875	0.069				
a1	0.1		0.25	0.004		0.010				
a2			1.65			0.065				
b	0.35		0.48	0.014		0.019				
b1	0.19		0.25	0.007		0.010				
С		0.50			0.020					
c1	45° (typ)									
D	4.8		5.0	0.189		0.197				
E	5.8		6.2	0.228		0.244				
е		1.27			0.050	X				
еЗ		3.81			0.150					
F	3.8		4.0	0.15		0.157				
L	0.4		1.27	0.016		0.050				
М			0.6			0.024				
S	8° (max)									