

## LT3021

### Tripolar Overvoltage Protection for Network Interfaces

Revision:B

#### General Description

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

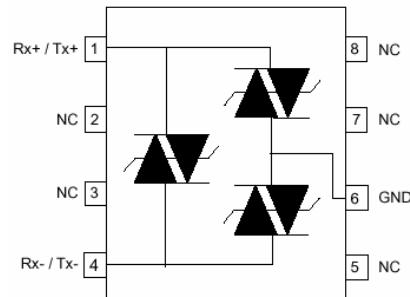
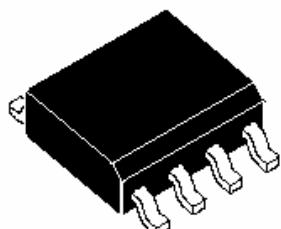
#### Applications

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:  $I_{pp}=30A (10/1000\mu s)$
- Low holding current:  $I_H=30mA$

SO-8



#### Electrical Parameter

Symbol	Parameter
$V_{DRM}$	Stand-off voltage
$I_{DRM}$	Leakage current $V_{DRM}$
$V_{BR}$	Continuous reverse voltage
$V_{BO}$	Breakover voltage
$I_H$	Holding current
$I_{BO}$	Breakover current
$I_{pp}$	Peak pulse current
C	Capacitance

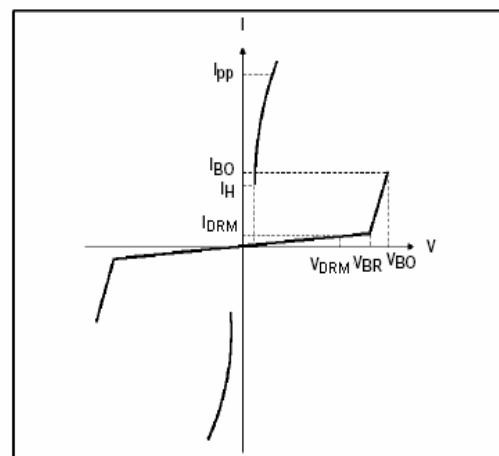
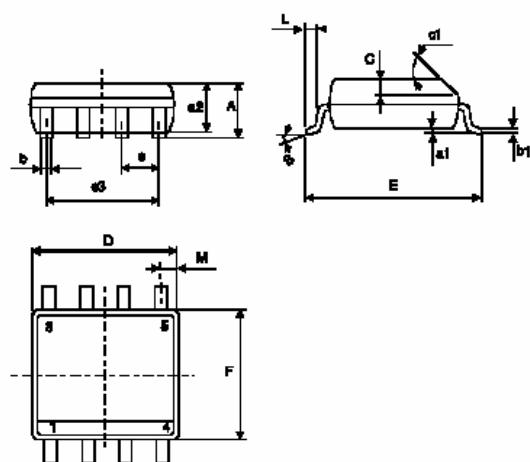


Fig1. LT3021 Characteristic Curve

## Electrical Characteristics (Tamb=25°C)

$V_{DRM}$	$I_{DRM}$	$V_{BO}$	$I_{BO}$	$V_T$	$I_T$	$I_H$	$C_O$	$I_{PP}$ (10/1000us)
Max.	Max.	Max.	Max.	Max.	Min.	Max.		
V	uA	V	mA	V	A	mA	pF	A
28	10	38	300	5	1	30	25	30

## SO-8 MECHANICAL DATA



REF.	DIMENSIONS					
	Millimetres			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A			1.75			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
C		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
e		1.27			0.050	
e3		3.81			0.150	
F	3.8		4.0	0.15		0.157
L	0.4		1.27	0.016		0.050
M			0.6			0.024
S	8° (max)					

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