

## DESCRIPTION

The SELCO522P is an ultra low capacitance TVS array. It is designed to protect computing applications such as gigabit Ethernet , HDMI , USB and DVI interfaces as well as telecommunication equipment and systems.

The SELCO522P is available in the space-saving DFN1510TP6 package configuration. It meets the IEC 61000-4-2 (ESD), 61000-4-2 (EFT) and 61000-4-4( Surge) requirements . At higher operating frequencies or faster edge rates, insertion loss and signal integrity are a major concern. This device in conjunction with passive components integrated into a TVS/filter network can be used for EMI/RFI protection.

## FEATURES

- > 75 Watts Peak Pulse Power per Line (tp=8/20μs)
- > Protects two high speed lines
- > Low Clamping Voltage
- > Weight:3.0mg
- > RoHS Compliant

## APPLICATIONS

- > High Definition Multi-Media Interface (HDMI)
- > Digital Visual Interface (DVI)
- > MDDI Ports
- > PCI Express
- > Serial ATA

## IEC COMPATIBILITY

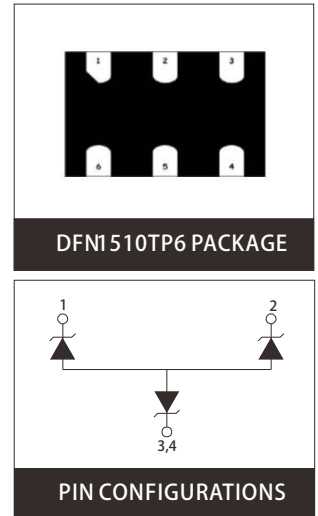
- > IEC61000-4-2 (ESD) ±15kV (air), ±15kV (contact)
- > IEC61000-4-4 (EFT) 40A (5/50ns)
- > IEC61000-4-5 (Lightning) 2.5A (8/20μs)

## MAXIMUM RATINGS @ 25°C UNLESS OTHERWISE SPECIFIED

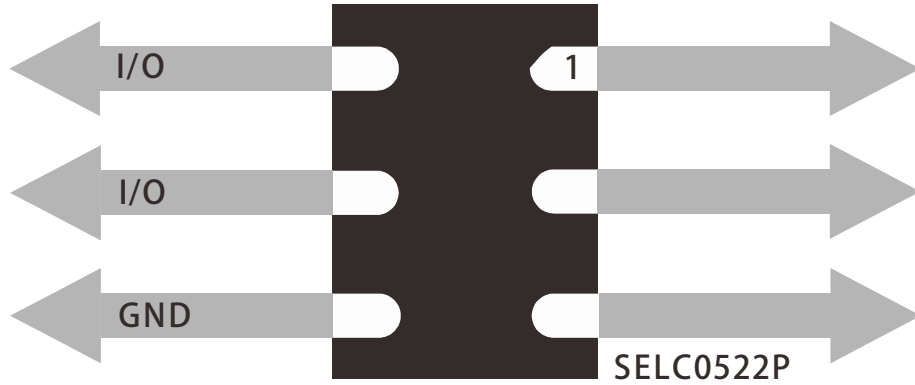
PARAMETER	SYMBOL	VALUE	UNIT
Peak Pulse Power (tp=8/20μs waveform)	PPP	75	Watts
Lead Soldering Temperature	TL	260(10 sec.)	°C
Operating Temperature Range	TJ	-55~150	°C
Storage Temperature Range	TSTG	-55~150	°C

## ELECTRICAL CHARACTERISTICS PER LINE @ 25°C UNLESS OTHERWISE SPECIFIED

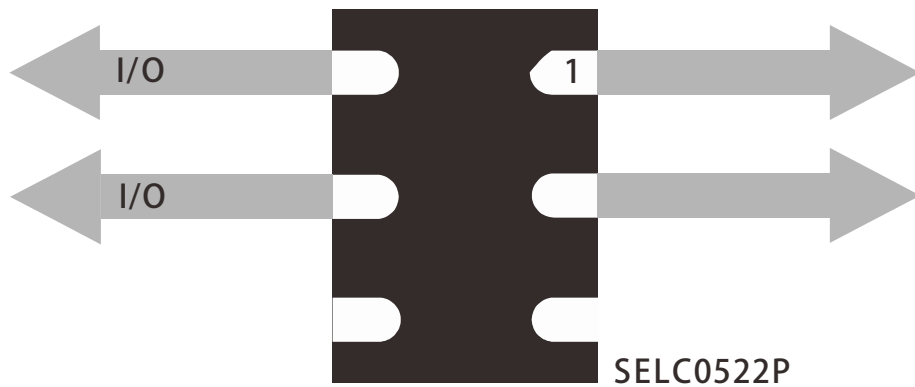
PART NUMBER	DEVICE MARKING	VRWM	VB	IT	Vc @1A	Vc		Ir	CT
		(V) Max.	(V) Min.	(mA)	Max.	Max.	@A	(uA) Max.	(pF) Typ.
SELCO522P	UL12	5.0	6.0	1	18.0	30.0	2.5	1	0.2



LAYOUT DIAGRAM INFORMATION



Protected two I/O Lines with GND



Protected two I/O Lines without GND

**DFN1510TP6 PACKAGE INFORMATION**

OUTLINE DIMENSIONS			
DIM	MILLIMETERS		
	MIN	NOM	MAX
A	0.70	0.75	0.80
A1	-	0.02	0.05
b	0.17	0.20	0.25
c	0.15	0.20	0.25
D	1.45	1.50	1.55
E	0.90	1.00	1.10
e	0.50 BSC		
L	0.20	0.25	0.30
h	0.08	0.10	0.12

**ENVIRONMENTAL CHARACTERISTICS**

Testing Items	Technical Standards
High Temperature Reverse Bias Test	Temperature:150±3°C,Bias=80%V <sub>DRM</sub> ;Time:168H
High Temperature Life Test	Temperature:150°C ;Time:168H
High-Low Temperature Cycle Test	Temperature:From -40°C to 150°C ;Dwell Time:30min,10-100 Cycles
High Temperature&High Humidity Test	Temperature:85°C.Humidity:85%; Time:168H
Pressure Cooker Test	Temperature:121°C,2 atm.Humidity:100%; Time:24H To 168H
Resistance Of Soldering Heat	Temperature:260±5°C;Time Of Dip Soldering:10s,3 Times

**ORDERING INFORMATION**

Part Number	Component Package	QTY/Reel	Reel Size
SELC0522P	DFN1510TP6	3000PCS	7"

## **CONTACT US**

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