



17-CHANNEL TRANSIENT VOLTAGE SUPPRESSOR ARRAY

Features

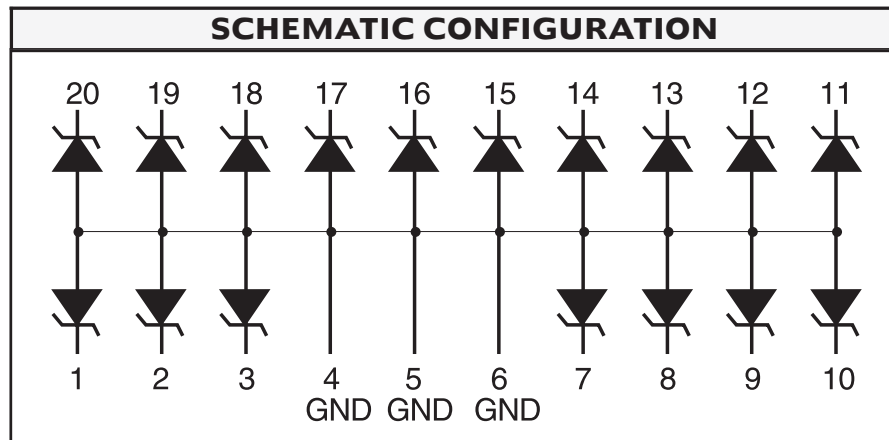
- 17 transient voltage suppressors in a single package.
- In-system ESD protection to 30KV contact discharge per IEC 61000-4-2 International Standard.
- Compact 20-pin QSOP package saves board space and eases layout in space critical applications.

Applications

- ESD protection of PC parallel ports.
- Protection of interface ports or IC pins which are exposed to high levels of ESD discharge.

Product Description

California Micro Devices' PAC™ DN027 is a transient voltage suppressor array that provides a very high level of protection for sensitive integrated circuit terminals that may be subjected to electrostatic discharge (ESD). The PAC™ DN027 is designed and characterized to safely dissipate ESD strikes at levels well beyond the maximum requirements set forth in the IEC 61000-4-2 specification (Level 4, 8KV contact discharge). All pins of the PAC™ DN027 are rated at 30KV using the IEC 61000-4-2 contact discharge method.

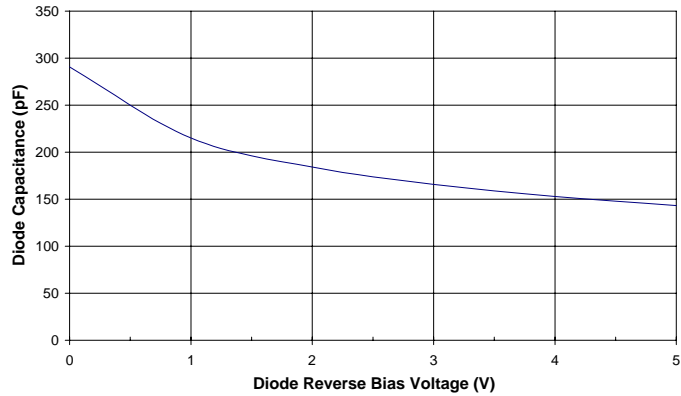


STANDARD SPECIFICATIONS				
Parameter	Min.	Typ.	Max.	Unit
Reverse Stand-off Voltage, I = 10uA	5.5			V
Signal Clamp Voltage:				
Positive Clamp, 20mA	5.6	6.8	8.0	V
Negative Clamp, 20mA	-1.2	-0.8	-0.4	V
In-system ESD withstand voltage*:				
Human Body Model (MIL-STD-883D, method 3015)	±30			KV
IEC 61000-4-2, contact discharge method	±30			KV
Clamping voltage during ESD discharge		9.5		V
MIL-STD-883D (Method 3015), 8kV		-4.0		V
Capacitance @ 2.5V dc, 1 MHz		175		pF
Temperature Range:				
Operating	-20		85	°C
Storage	-65		150	
Package Power Rating			1.0	W

*ESD applied between channel pin and ground, one at a time. All other pins are open. Pins 4,5,6 grounded. This parameter is guaranteed by design and characterization



Typical Diode Capacitance vs. Reverse Voltage



STANDARD PART ORDERING INFORMATION		
Package		Ordering Part Number
Pins	Style	Part Marking
20	QSOP	PACDN027Q

When placing an order please specify desired shipping: Tubes or Tape & Reel.