

Octal Schottky Diode Network

Features

- · Highly effective termination on controlled and uncontrolled line impedances
- · 8 terminating lines/package

Applications

- · Reduce undershoots and multiple triggering on high speed data lines
- ESD protection

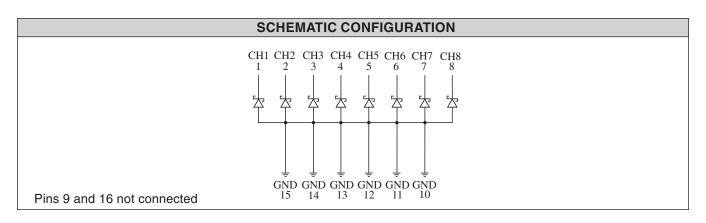
Refer to AP-201 Termination Application Note for further information.

Product Description

Undershoot disturbances on high speed data lines cause multiple triggering and can result in improper system operation. Resistors used for terminating these data lines increase power consumption and can degrade output high levels resulting in reduced noise immunity.

Schottky diodes are recommended for termination.

CAMD's PDN003 Integrated Clamp Diode Network minimizes the undershoots and provides effective termination on high speed data lines



STANDARD PART ORDERING INFORMATION					
Package		Ordering Part Number			
Pins	Style	Tubes	Tape & Reel	Part Marking	
16	Narrow SOIC	PDN003/T	PDN003/R	PDN003	

STANDARD SPECIFICATIONS				
Diode Forward Voltage @ I _F = 16mA	0.8V (typ.), 0.9V (max.)			
@ I _F = 50mA	1.5V			
Supply Voltage, V _P -V _N	-0.3V to 7V			
Operating Temperature Range	0°C to 70°C			
Channel Clamp Current	-50mA			
(duration ≤ 100µs, duty cycle ≤ 20%)				
Channel Leakage, 0 $V_{IN} \le V_{DD}$	0.1μA (typ), 10μA (max.)			
Input Capacitance @ V _{IN} = 0V, f = 1MHz	10pF (typical)			
@ V _{IN} = 2V	7pF (typical)			
Power Dissipation,	300mW			
$I_F \le 10$ mA/Channel, $T_A = 25$ °C				
Storage Temperature	-65°C to 150°C			
Package Power Rating	1.00W, max.			

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