

## **Schottky Diode Network**

Applications

high speed data lines

## **Features**

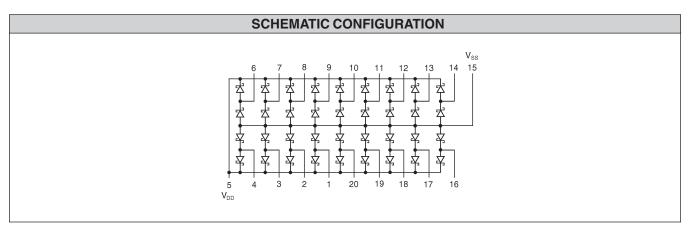
- Highly effective termination on controlled and uncontrolled line impedances
- 18 terminating lines/package
- Saves board space and component cost

## **Product Description**

Reflections on high speed data lines lead to undershoot and overshoot disturbances which may result in improper system operation. Resistors, when used to terminate these high speed data lines, increase power consumption and degrade the output high level resulting in reduced noise immunity. For these reasons, Schottky diodes are often recommended for termination. CAMD's PDN001 Schottky Diode minimizes the overshoots and undershoots and provides effective termination of high speed data lines under variable loading conditions.

· Reduce overshoots and undershoots on

Note: The PDN001 has been improved and is available as an upgraded device — PACDN005. The PACDN005 is recommended for all new designs.



STANDARD PART ORDERING INFORMATION					
Package		Ordering Part Number			
Pins	Style	Tubes	Tape & Reel	Part Marking	
20	QSOP	PDN001/T	PDN001/R	PDN001	

STANDARD SPECIFICATIONS				
Parameter	Symbol	Rating		
Operating Temperature Range		0°C to 70°C		
Diode Forward Voltage				
@IF = 1mA		0.45V (typical), 0.55V (Max)		
@IF = 12mA		1V		
Supply Voltage	$V_{DD} - V_{SS}$	0.3V to 7V		
Channel Clamp Current	I <sub>CLAMP</sub>	±5mA		
Power Dissipation, Max, $TA = 25^{\circ}C$		900mW		
Channel Leakage, $0 \le V_{IN} \le V_{DD}$		100nA		
Storage Temperature		-65°C to 150°C		
Package Power Rating		1W, Max		

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PDN00<sup>-</sup>