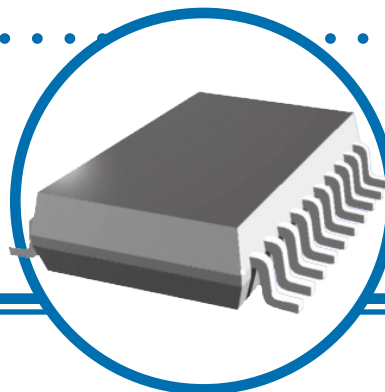


17 Channel ESD Protection Network

QDN002 Series

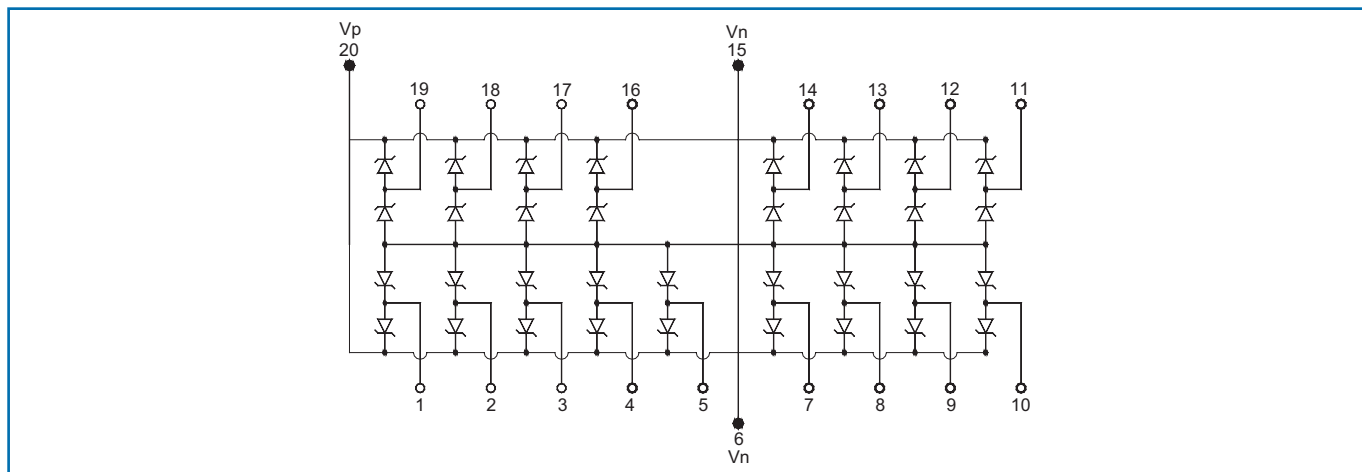
- RoHS compliant and Sn/Pb terminations available
- Reduces overshoot and undershoot for all data line types
- 15KV HBM ESD protection, 8KV ESD contact discharge protection
- Effective termination for both controlled/uncontrolled line terminations
- 34 Schottky diodes integrated in a QSOP package for fast turn-on/reverse recovery characteristics



Electrical Data

Parameter	Min Value	Max Value
Operating Voltage ($V_p - V_n$)	-0.3V	12.0V
Diode Forward Voltage	0.65V	1.0V
Channel Input Voltage	$V_n - 0.5$	$V_p + 0.5$
Diode Forward DC Current	N/A	20mA
Supply Current ($V_p - V_n = 12.0V, T = 25^\circ C$)	N/A	10 μA
Channel Input Capacitance (@1MHz) (5.5pF typical)	N/A	12pF
ESD Protection MIL-STD-883 Method 3015 Contact Discharge	$\pm 15KV$ $\pm 8KV$	N/A N/A
Channel Leakage Current ($T = 25^\circ C$) ($\pm 0.1\mu A$ typical)	N/A	1 μA
Package Power Rating	N/A	1.0W
Operating Temperature Range	-20 $^\circ C$	+85 $^\circ C$
Storage Temperature Range	-65 $^\circ C$	+150 $^\circ C$

Schematic Data



General Note

IRC reserves the right to make changes in product specification without notice or liability.
All information is subject to IRC's own data and is considered accurate at time of going to print.

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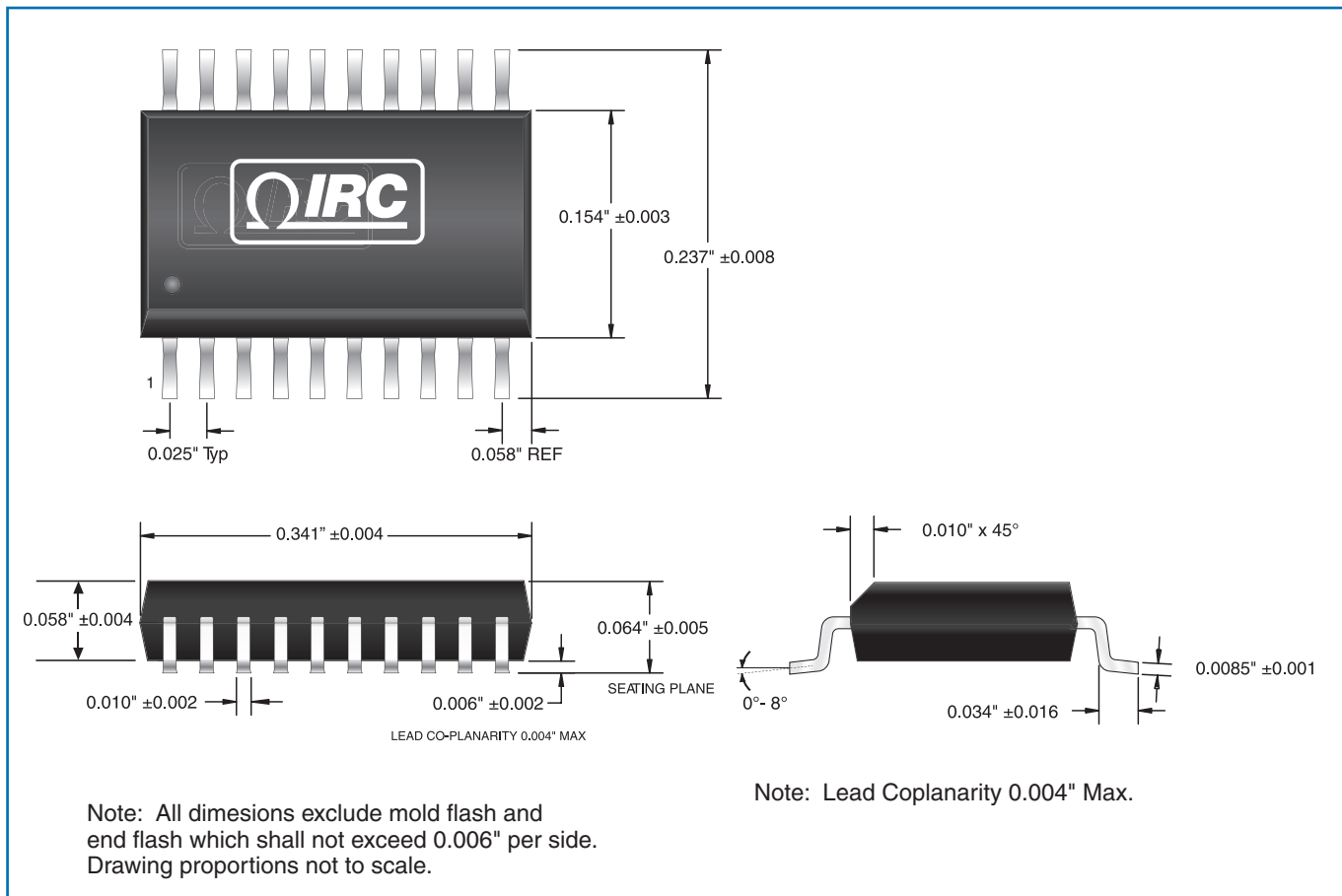


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QDN002 Series Issue January 2009 Sheet 1 of 2

17 Channel ESD Protection Network

Physical Data



Ordering Data

Prefix **DNR** - **QDN002LF**

Model
QDN002LF = 20-pin, high speed, 17-line termination network with 100% matte tin, Pb-free terminations
QDN002 = 20-pin, high speed, 17-line termination network with Sn/Pb terminations

Packaging

Specify tubes or tape & reel.

For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.