

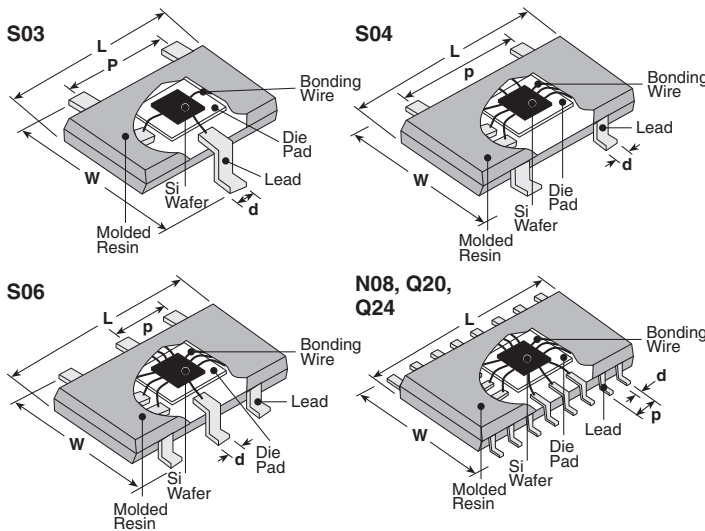
features

- Fast reverse recovery time
- Low capacitance
- 16 kV IEC61000-4-2 capable
- Products with lead-free terminations meet EU RoHS and China RoHS requirements
- Fast turn on time
- SMD packages

applications

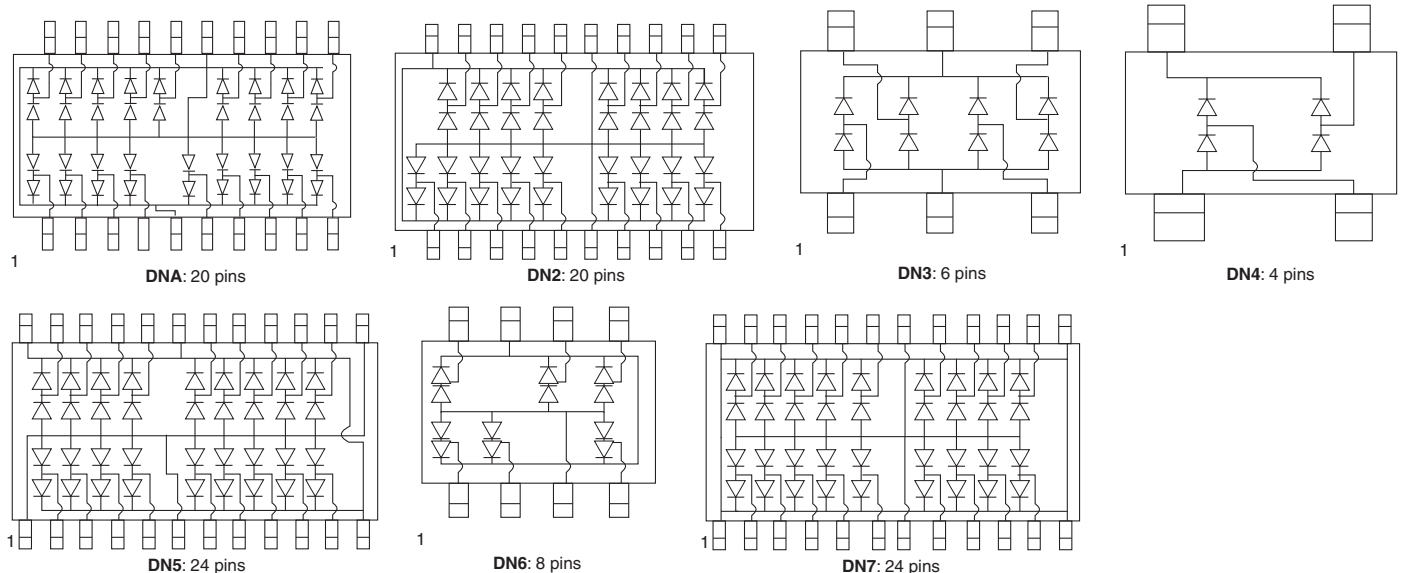
- Signal termination
- Signal conditioning
- ESD suppression
- Transient suppression

dimensions and construction



| Package Code | Total Power | Pins | Dimensions inches (mm) | | | | |
|--------------|-------------|------|------------------------|----------------|-----------------|----------------|----------------|
| | | | L ±0.2 | W ±0.2 | p ±0.1 | Pkg Ht ±0.2 | d ±0.05 |
| S03 | 225mw | 3 | .115 (2.92) | .091 (2.30) | .075 (1.91) | .037 (0.95) | .017 (0.43) |
| S04 | 225mw | 4 | .115 (2.92) | .091 (2.30) | .075 (1.91) | .037 (0.95) | .017 (0.43) |
| S06 | 225mw | 6 | .115 (2.92) | .110 (2.80) | .037 (0.95) | .037 (0.95) | .017 (0.43) |
| N08 | 400mw | 8 | .190 (4.83) | .236 (5.99) | .050 (1.27) | .063 (1.60) | .016 (0.41) |
| Q20 | 1000mw | 20 | .341 (8.66) | .236 (5.99) | .025 (0.635) | .063 (1.60) | .010 (0.25) |
| Q24 | 1000mw | 24 | .341 (8.66) | .236 (5.99) | .025 (0.635) | .063 (1.60) | .010 (0.25) |

circuit schematic



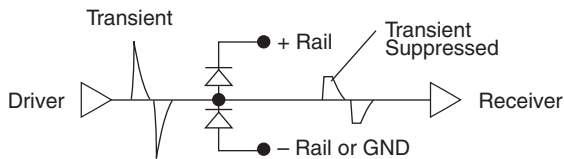
For further information on packaging, please refer to Appendix A.

ordering information

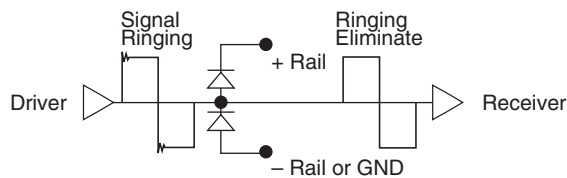
| New Part # | DNA | Q20 | T | TEB |
|------------|---|--|--|---|
| | Type | Package Symbol | Termination Material | Packaging |
| | DNA DN2 DN3 DN4 DN5 DN6 DN7 | Package type symbol + number of pins S03: 3 pin SOT23 S04: 4 pin SOT23 S06: 6 pin SOT23 N08: 8 pin Narrow SOIC Q20: 20 pin QSOP Q24: 24 pin QSOP | T: Sn (Other termination styles available, contact factory for options) | TE: 7" embossed plastic TEB: 13" embossed plastic tape |

application schematic

ESD Suppression



Signal Conditioning



applications and ratings

| Part Designation | Forward Voltage $I_F=50\text{ma}$ | Reverse Breakdown Voltage $I_R=1\text{ma}$ | Leakage Current @7V | Capacitance @1Mhz | ESD Voltage Capability IEC 61000-4-2 | Operating Temperature Range | Continuous Forward Current* |
|------------------|--------------------------------------|---|------------------------|----------------------|---|-----------------------------|-----------------------------|
| DN(X) | 0.4 to 1.2V | 7.2V | 1uA | 2pF | 16kV | -55°C to +125°C | 50mA |

* One diode conducting