

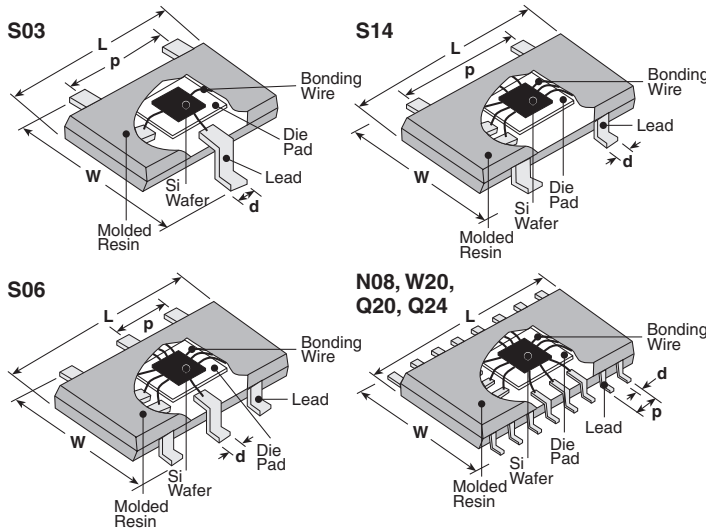
features

- Fast reverse recovery time
- Fast turn on time
- Low capacitance
- SMD packages
- 16 kV IEC61000-4-2 capable

applications

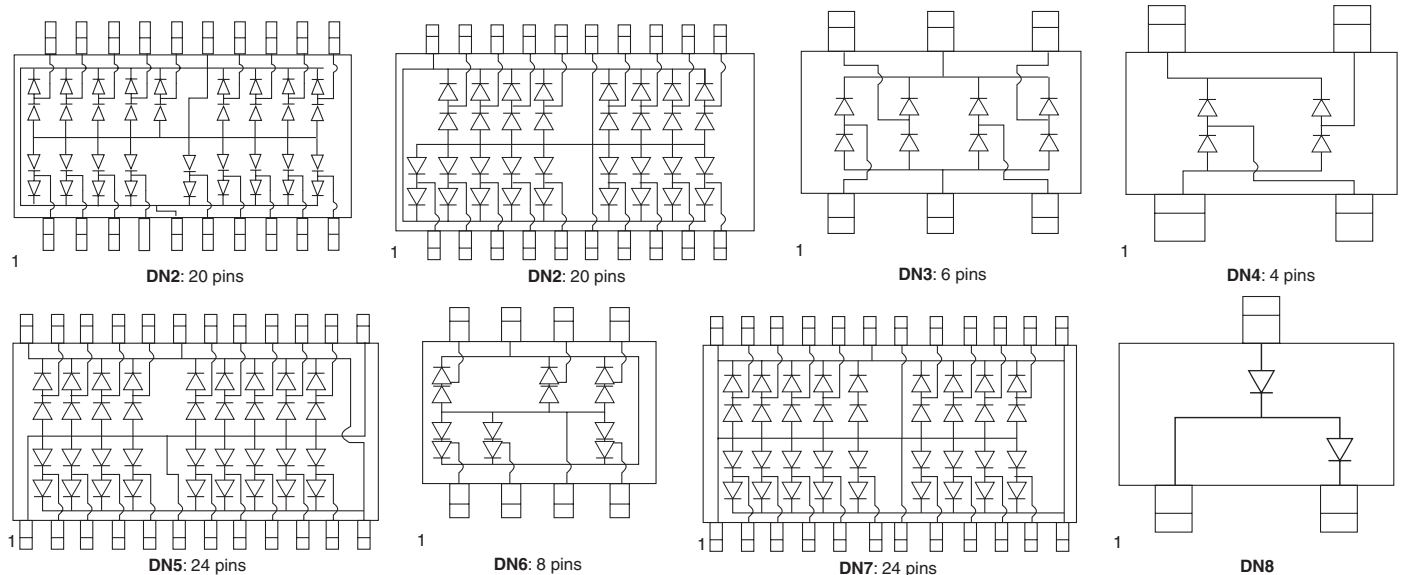
- Singal termination
- Signal conditioning
- ESD suppression
- Transient suppression

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)
S14	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)	.075 (1.91)	.037 (0.95)	.017 (0.43)
N08	400mw	8	.190 (4.83)	.236 (5.99)	.050 (1.27)	.063 (1.60)	.016 (0.41)
W20	1200mw	20	.500 (12.7)	.408 (10.36)	.050 (1.27)	.084 (2.40)	.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



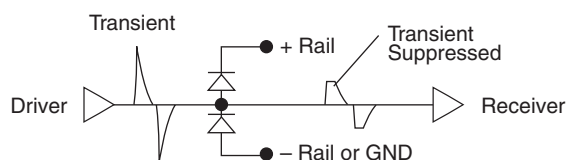
For further information on packaging, please refer to Appendix C.

ordering information

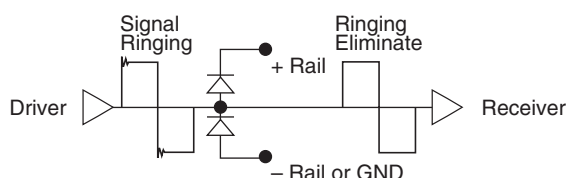
New Part #	DNA	Q20	T	TEB
	Type	Package Symbol	Termination Material	Packaging
	DNA DN2 DN3 DN4 DN5 DN6 DN7 DN8	Package type symbol + number of pins S03: 3 pin SOT23 S14: 4 pin SOT23 S06: 6 pin SOT23 N08: 8 pin Narrow SOIC W20: 20 pin Wide SOIC Q20: 20 pin QSOP Q24: 24 pin QSOP	T: Sn L: SnPb	TE: 7" embossed plastic TEB: 13" embossed plastic tape

application schematic

ESD Suppression



Signal Conditioning



applications and ratings

Part Designation	Forward Voltage 1 _F =50ma	Reverse Breakdown Voltage 1 _R =1ma	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	1 to 5pF	16kV	-40°C to +85°C	50mA

* One diode conducting

environmental applications

Performance Characteristics

Parameter	Maximum	Test Method
Resistance to Soldering Heat	+0.25%	MIL-R-55342 4.7.7
Short Time Overload	+0.50%	MIL-R-55342 4.7.5
Moisture Resistance	+0.50%	MIL-STD-202 method 103
Thermal Shock	+0.50%	MIL-STD-202 method 107
H.A.S.T.	+1%	2 Atm., 121°C, 96 hrs