



Si9200

CAN Bus Driver

T-52-09

- FEATURES

 - Survives Shorts and Transients on Multiplexed Bus in Automotive Applications
 - Single Power Supply
 - Compatible with Intel 82526 CAN Controller
 - Direct Interface – No External Components Required
- APPLICATION

 - Two Wire Multiplexer Interface
- END PRODUCTS

 - Automobiles
 - Trucks
 - Tractors
 - Industrial Controls

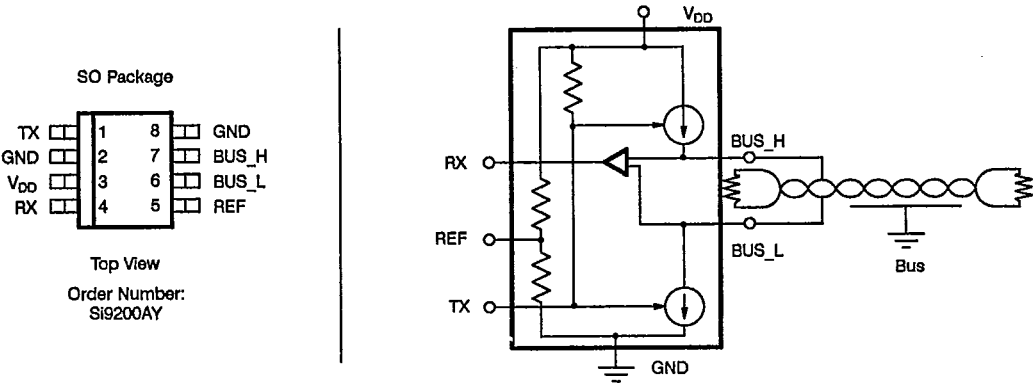
DESCRIPTION

The Si9200 is designed to interface between the Intel 82526 CAN Controller and the physical bus to provide drive capability to the bus and differential receive capability to the controller. It is designed to operate reliably over the extended temperature range, absorb typical electrical transients on the bus which may occur in an automotive or industrial application, and protect itself against any abnormal bus conditions.

The Si9200 is built using the Siliconix D/CMOS process. This process supports CMOS, DMOS, and Isolated bipolar transistors and uses an epitaxial layer to prevent latchup. The bus line pins are diode protected and can be driven beyond the V_{DD} to ground range.

The Si9200 is offered in the space efficient 8-pin high-density surface mount plastic package.

PIN CONFIGURATION/FUNCTIONAL BLOCK DIAGRAM



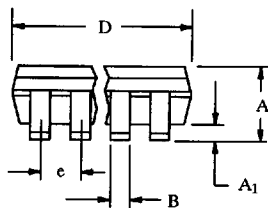
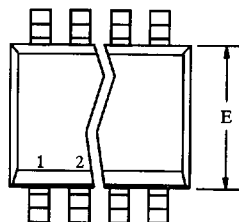
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TRUTH TABLE

TX	BUS_H	BUS_L	Bus State
0	High	Low	Dominant
1 (or Floating)	Floating	Floating	Recessive

Advance Information

SO Package (Y Suffix), 8–16 Leads



Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	1.35	1.75	0.053	0.069
A ₁	0.10	0.20	0.004	0.008
B	0.35	0.45	0.014	0.018
C	0.18	0.23	0.007	0.009
D-8	4.60	5.20	0.181	0.205
D-14	8.35	8.95	0.329	0.352
D-16	9.60	10.20	0.378	0.402
E	3.55	4.05	0.140	0.160
e	1.27 BSC		0.050 BSC	
H	5.70	6.30	0.224	0.248
L	0.60	0.80	0.024	0.031
Θ	0°	8°	0°	8°

