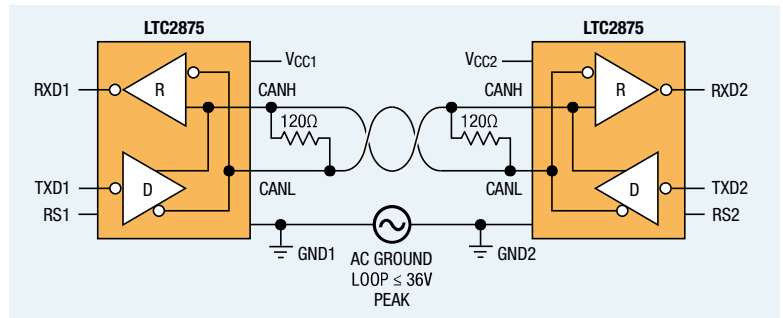


CAN Transceivers

In practical CAN (controller area network) systems, installation cross-wiring faults, ground voltage faults or lightning induced surge voltages can cause overvoltage conditions that exceed absolute maximum ratings of typical transceivers. Linear Technology offers exceptionally rugged, high voltage tolerant CAN transceivers, that greatly reduces field failures without the need of costly external protection devices. These devices feature $\pm 60V$ overvoltage fault and $\pm 25kV$ HBM ESD protection on the data transmission lines, protecting bus pins during operation and shutdown.

CAN Bus Link with Large Ground Loop Voltage



Product	Supply Voltage (V)	Max Data Rate (Mbps)	Fault Protection	ESD (kV)	Common Mode Transient Immunity	Common Mode Voltage	Shutdown (Yes/No)	Isolation Rating	Packages
LTC2875	3.3, 5	4	$\pm 60V$	25	30kV/ μs	$\pm 36V$	Yes		3x3 DFN-8, SO-8
LTM2889	3.3, 5	4	$\pm 60V$	25	30kV/ μs	$\pm 36V$	Yes	2500V _{RMS}	15x11.25 BGA-32

isoSPI

isoSPI connects standard SPI devices using a single twisted pair of wire up to 100 meters with full galvanic isolation. The LTC6820 encodes SPI signals, up to 100Mbps, into a differential signal that is transmitted across a simple pulse transformer.

