

## Low Dissipation, 5Mbps, RS-422 Interface Circuit

### PRODUCT DESCRIPTION

The MS2583/MS2583M is a RS-422 communication interface circuit, which is featured by low dissipation, 5Mbps and high ESD capacity. In receiver mode, the dissipation is only about 0.3mA. The electrostatic discharge (ESD) in A/B terminal can be up to  $\pm 15\text{kV}$  and no self-excited phenomenon. When circuit temperature is too high due to high current caused by shorted output, the internal thermal shutdown circuit operates and disables output to enter high impedance state.

### FEATURES

- Low Dissipation: Receiver Mode:  $300\mu\text{A}(5\text{V})$
- ESD: Z/Y, A/B  $\pm 15\text{kV}$  (HBM)
- Bus Maximum Connection: 128 Nodes
- Data Rate: 5Mbps (Max)
- Compatible with other 422 chips

### APPLICATIONS

- Industrial Automation
- Electricity Meter, Water Meter
- HVAC Systems
- Process Control
- Motion Control
- RS-422 Interface

### PRODUCT SPECIFICATION

Part Number	Package	Marking
MS2583	SOP8	MS2583
MS2583M	MSOP8	MS2583M



SOP8



MSOP8