

# LM358

## Dual Operational Amplifier



Immense Advance Tech.

### FEATURES

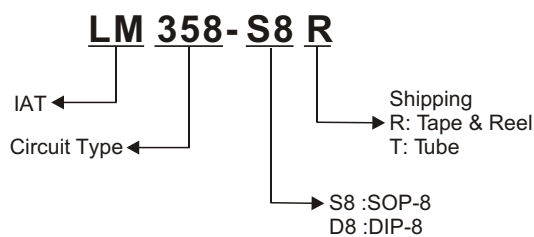
- Short Circuit Protected Outputs
- True Differential Input Stage
- Single Supply Operation: 3.0V to 32V
- Low Input Bias Currents
- Internally Compensated
- Common Mode Range Extends to Negative Supply
- Single and Split Supply Operation
- ESD Clamps on the inputs Increase Ruggedness of the Device without Affecting Operation

### DESCRIPTION

Utilizing the circuit designs perfected for two operational amplifiers, these dual operational amplifiers feature low power drain, a common mode input voltage range extending to  $GND/V_{EE}$ , and single supply or split supply operation.

These amplifiers have several distinct advantages over standard operational amplifier types in single supply applications. They can operate at supply voltages as low as 3.0V or as high as 32V, with quiescent currents about one-fifth of those associated with the LM358 (on a per amplifier basis). The common mode input range includes the negative supply, thereby eliminating the necessity for external biasing components in many applications. The output voltage range also includes the negative power supply voltage.

### ORDERING INFORMATION



### PIN CONFIGURATIONS (TOP VIEW)

