

## Fixed Voltage Regulators-T03 Metal Package

### REFERENCE TABLE

Code	Stock No.
LO05T1	28940F
LO36T1	28942B
LO37T1	28944R

### DESCRIPTION

These monolithic voltage regulators feature high temperature stability, internal overload and short circuit protection, low output impedance and excellent transient response. They are intended for use as voltage supply for linear and digital integrated circuits and for other industrial applications.

### ABSOLUTE MAXIMUM RATINGS

Input voltage (LO05T1)	20V
(LO36T1)	27V
(LO37T1)	27V
Power dissipation (free air, $T_A=25^\circ\text{C}$ )	3.25W
Power dissipation (with infinite heat sink, $T_c=25^\circ\text{C}$ )	12.75W
Storage temperature range	$-55^\circ\text{C}$ to $150^\circ\text{C}$
Operating temperature range	$0^\circ\text{C}$ to $+70^\circ\text{C}$

### TYPICAL ELECTRICAL CHARACTERISTICS

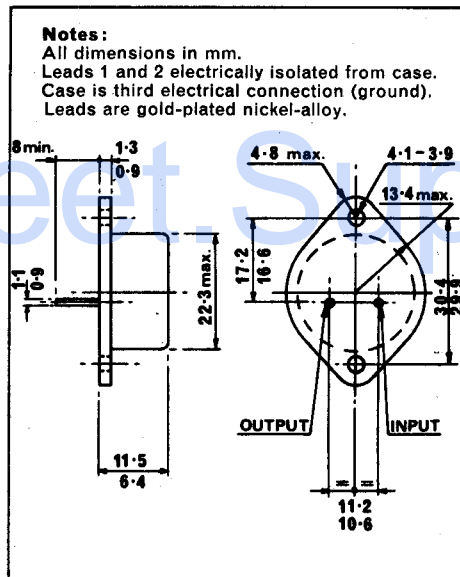
Parameter	LO05T1	LO36T1	LO37T1	Unit
Output voltage	5	12	15	V
Load regulation	0.3	0.3	0.3	% V <sub>out</sub>
Regulated output current	600*	500*	450*	mA
Output resistance	15	20	27	m $\Omega$
Supply voltage rejection	60	60	56	dB
Output noise voltage	70	150	180	$\mu\text{V}$
Quiescent drain current	9	10	10	mA
Temperature coefficient	0.003	0.003	0.003	%/°C
Short circuit current	190	100	85	mA

\*minimum value

### FEATURES

Tight tolerance for output voltage.  
Load regulation less than 1%.  
Ripple rejection 56dB.  
Overload and short circuit protection.

### DIMENSIONS



MANUFACTURER'S CURRENT LIST PRICES ARE ALWAYS CHARGED