current regulator diode

designed for . . .

Performance Curves NKL
See Section 4

- **LD130 A/D Converter Interface Circuits**

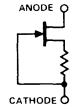
BENEFITS

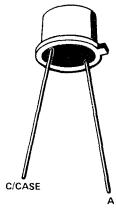
- TO-18 Package for Improved Current Control
- Low Drift with Temperature Temperature Coefficient ±0.05%/°C
- Peak Operating Voltage = 60 V

ABSOLUTE MAXIMUM RATINGS (25°C)

Peak Operating Voltage	60 V
Forward Current	20 mA
Reverse Current	50 mA
Thermal Resistance θ_{JC}	100°C/W
Power Dissipation at T_C = 25°C	1.25 W
Operating Junction Temperature	-55 to +150°C
Storage Temperature	-55 to +200°C
Lead Temperature (1/16" from case for 10 seconds)	300°C

TO-18
See Section 5





ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

		CHARACTERISTIC	MIN	TYP	MAX	UNIT	TEST CONDITIONS
1	STA	I_{F1} Regulator Current (Note 1)	240		390	μA	V_F = 25 V
2	STA	V_L Limiting Voltage		0.6	1.1	V	I_F = 200 μA
3	STA	POV Peak Operating Voltage	60	100		V	I_F = 468 μA
4	STA	θ_I Temperature Coefficient		±.05		%/°C	V_F = 25 V, T_A = +25 to +125°C
5	DYN	Z_d Dynamic Impedance (Note 2)	4.1	12.0		MΩ	V_F = 25 V
6	DYN	Z_k Knee Impedance	1.0	2.5		MΩ	V_F = 6 V

NOTES:
1. Pulse Test—Steady State Current may vary.
2. Pulse Test—Steady State Impedance may vary.

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