DC COMPONENTS CO., LTD.

INTEGRATED CIRCUIT

DA79L05
DA79L05A

TECHNICAL SPECIFICATIONS OF 3-TERMINAL NEGATIVE VOLTAGE REGULATOR

Description

These regulators empoly internal current limiting and thermal shutdown, making them essentially indestructible. They can deliver up to 100mA output current, if the case temperature can keep in T_C=25°C. They are intended as fixed voltage regulators in a wide range of applications including local(on-card) regulation for elimination of noise and distribution problems associated with single-point regulation. In addition, they can be used with power pass elements to make high-current voltage regulators.

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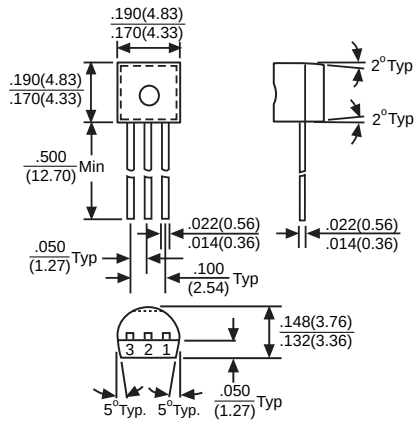

Dimensions in inches and (millimeters)

Pinning

1 = Ground
2 = Input
3 = Output

Absolute Maximum Ratings (T_A=25°C)

Characteristic	Symbol	Rating	Unit
Input Voltage	V_I	-30	V
Total Power Dissipation	P_D	Internal limit	W
Operating Temperature Range	T_{opr}	-30 to +75	°C
Maximum Junction Temperature	T_J	125	°C
Storage Temperature Range	T_{STG}	-40 to +125	°C

Electrical Characteristics

(V_{in}=-10V, I_{out}=40mA, 0°C≦T_J≦125°C, C_{in}=0.33μF, C_{out}=0.1μF, unless otherwise specified)

Characteristic		Symbol	Min	Typ	Max	Unit	Test Conditions
Output Voltage	DA79L05A	V_O	-4.85	-5.00	-5.15	V	T_J=25°C
	DA79L05		-4.75	-5.00	-5.25		
Line Regulation		Reg_{line}	-	-	150	mV	T_J=25°C, -7V≦V_{in}≦-20V
Load Regulation		Reg_{load}	-	-	60	mV	T_J=25°C, 1mA≦I_O≦100mA
Input Bias Current		I_{IB}	-	-	6.0	mA	T_J=25°C
Output Noise Voltage		V_n	-	120	-	μV	T_A=25°C, 10Hz≦f≦100KHz
Ripple Rejection		RR	41	71	-	dB	-8V≦V_{in}≦-18V, f=120Hz