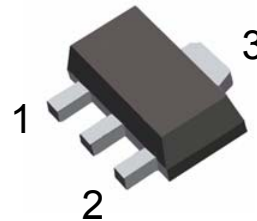


Maximum output current I_O : 0.1 A
 Output voltage V_O : -5 V
 Continuous total dissipation
 P_D : SOT-23 0.35 W ($T_a = 25^\circ\text{C}$)
 SOT-89 0.5 W ($T_a = 25^\circ\text{C}$)

SOT-23



SOT-89

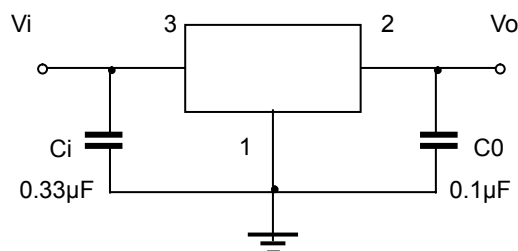


1. GND 2. OUT 3. IN

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_i	-30	V
Operating Junction Temperature Range	T_{OPR}	0~+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~+150	$^\circ\text{C}$

TYPICAL APPLICATION



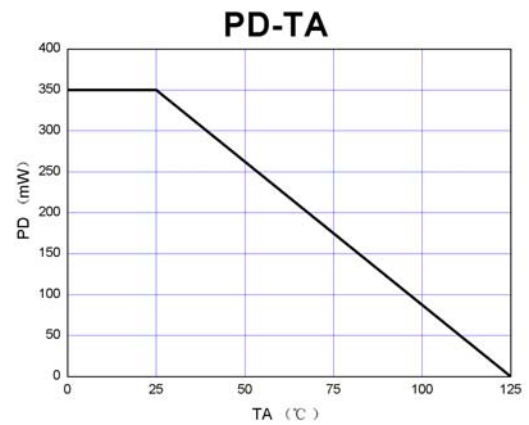
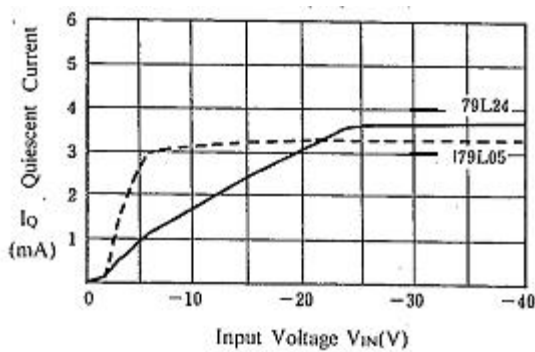
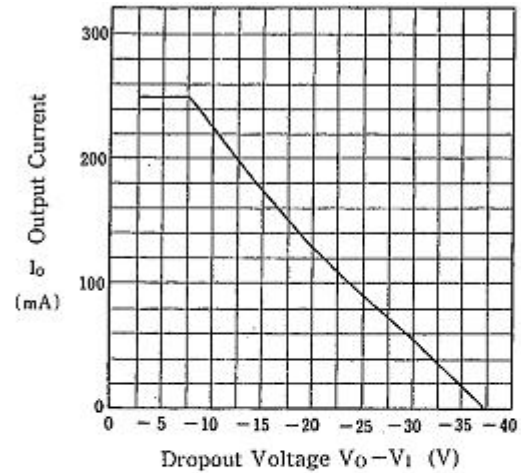
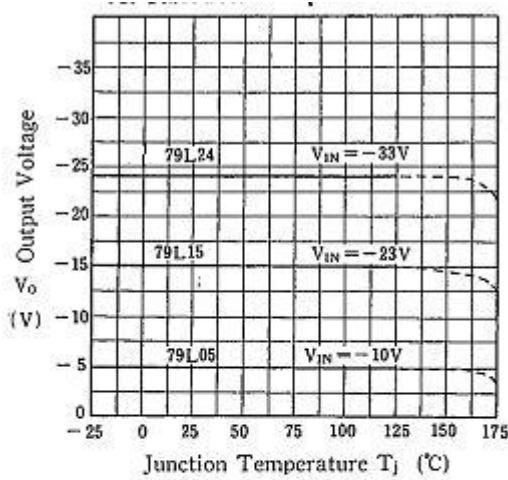
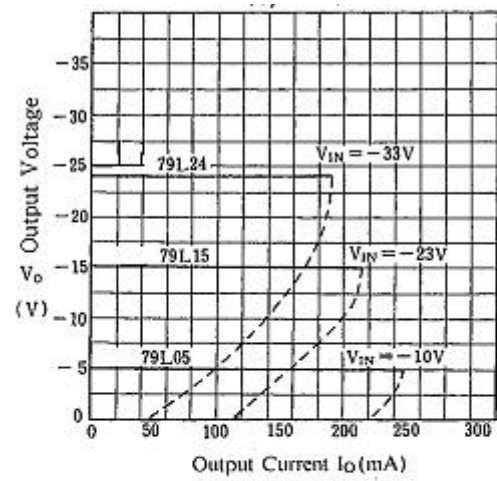
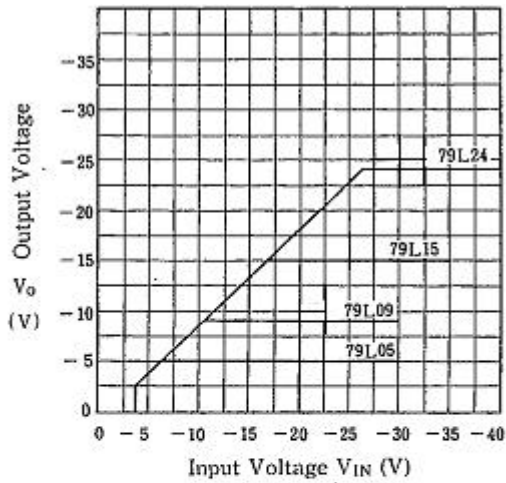
Note : Bypass capacitors are recommended for optimum stability and transient response and should be located as close as Possible to the regulators.

79L05

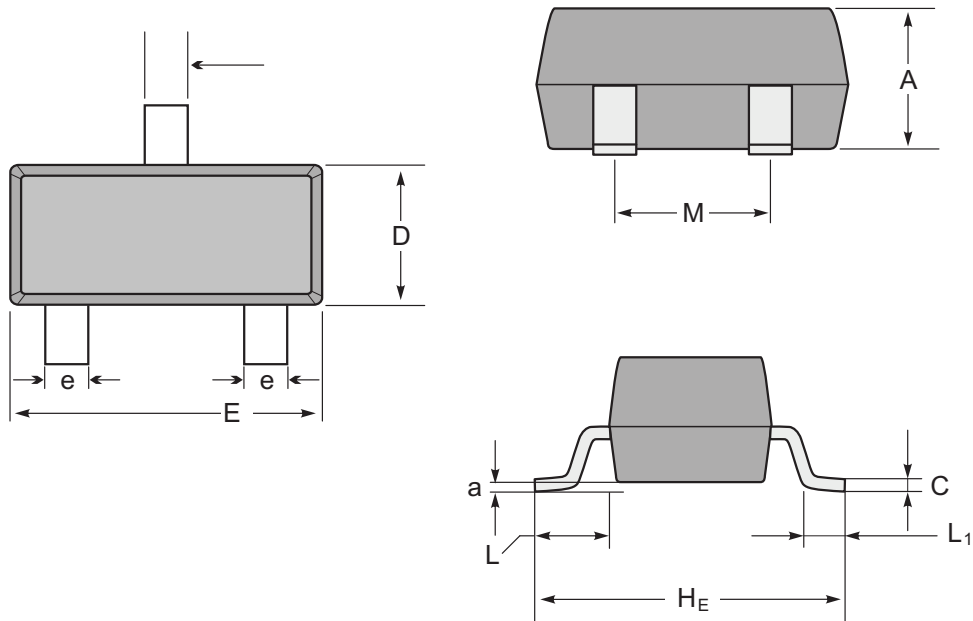
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE($V_I=-10V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions		MIN	TYP	MAX	UNIT
Output voltage	V_o		25°C	-4.8	-5.0	-5.2	V
		-7V $\leq V_I \leq$ -20V, $I_o=1mA \sim 40mA$	0-125°C	-4.75	-5.0	-5.25	V
		$I_o=1mA \sim 70mA$		-4.75	-5.0	-5.25	V
Load Regulation	ΔV_o	$I_o=1mA \sim 100mA$	25°C		20	60	mV
		$I_o=1mA \sim 40mA$	25°C		10	30	mV
Line regulation	ΔV_o	-7V $\leq V_I \leq$ -20V	25°C		15	150	mV
		-8V $\leq V_I \leq$ -20V	25°C		12	100	mV
Quiescent Current	I_q		25°C			6	mA
Quiescent Current Change	ΔI_q	-8V $\leq V_I \leq$ -20V	0-125°C			1.5	mA
	ΔI_q	1mA $\leq V_I \leq$ 40mA	0-125°C			0.1	mA
Output Noise Voltage	V_N	10Hz $\leq f \leq$ 100KHz	25°C		40		μV
Ripple Rejection	RR	-8V $\leq V_I \leq$ -18V, $f=120Hz$	0-125°C	41	49		dB
Dropout Voltage	V_d		25°C		1.7		V

RATING AND CHARACTERISTIC CURVES (79L05)



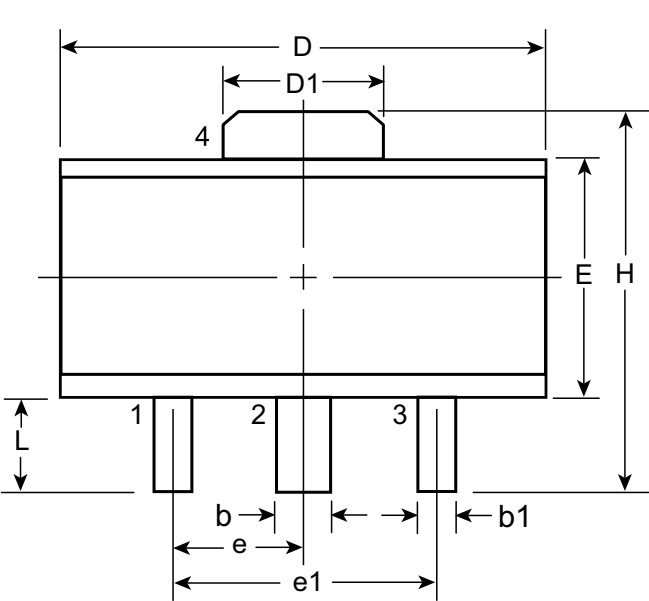
SOT-23 PACKAGE OUTLINE



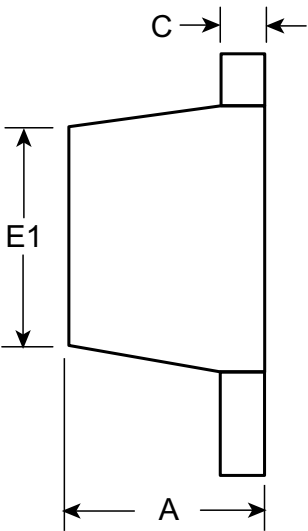
SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

SOT-89 PACKAGE OUTLINE



Top View



Side View

Symbol		A	b	b1	C	D	D1	E	E1	e	e1	H	L
Dimensions (mm)	MIN	1.40	0.44	0.36	0.3	4.40	1.50	2.29	2.00 [*]	1.50 BSC	3.00 BSC	3.94	0.89
	NOM	-	-	-	-	-	-	-	-			-	-
	MAX	1.60	0.56	0.48	0.5	4.60	1.75	2.60	2.29			4.25	1.20

Dimensions in mm