

MSKSEMI 美森科

SEMICONDUCTOR



ESD



TVS



TSS



MOV



GDT



PLED

MS79L05S/MS79L05

Product specification

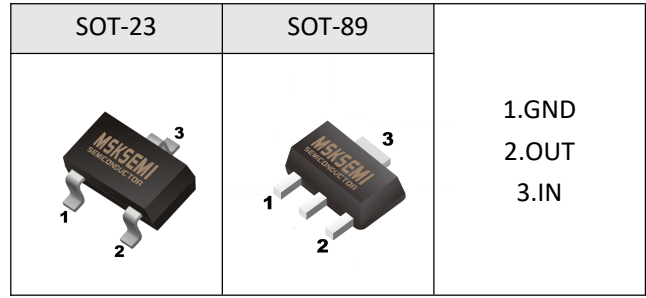
Maximum output current I_o : 0.1 A

Output voltage V_o : -5 V

Continuous total dissipation

P_D : SOT-23-3L 0.35 W ($T_a= 25\text{ }^\circ\text{C}$)

SOT-89 0.5 W ($T_a= 25\text{ }^\circ\text{C}$)



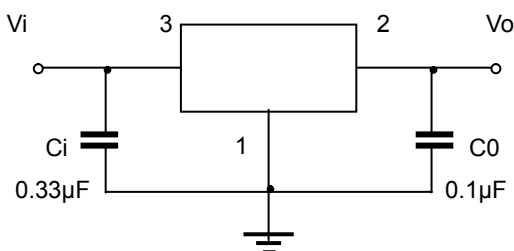
ABSOLUTE MAXIMUM RATINGS(Operating temperature range applies unless otherwise specified)

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	$^\circ\text{C}$

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)

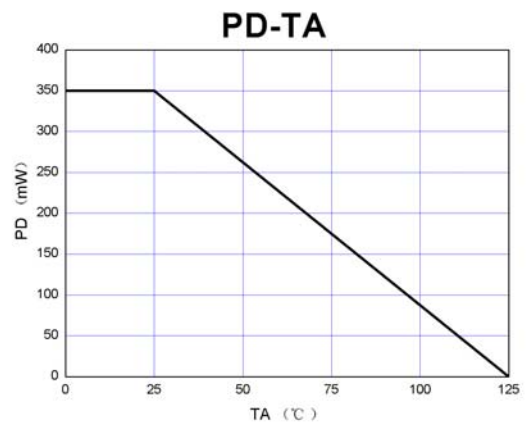
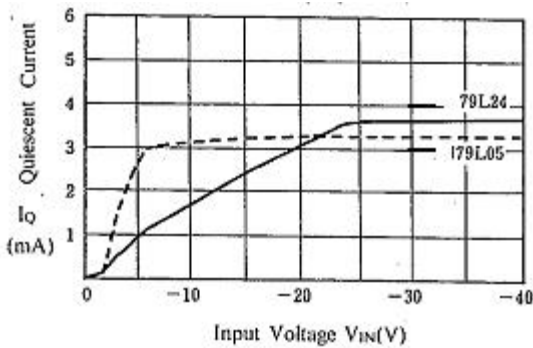
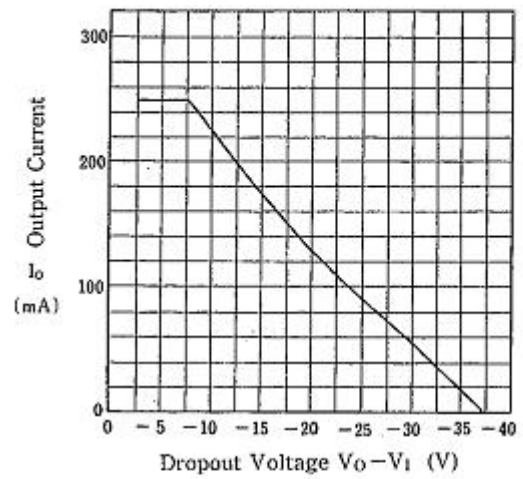
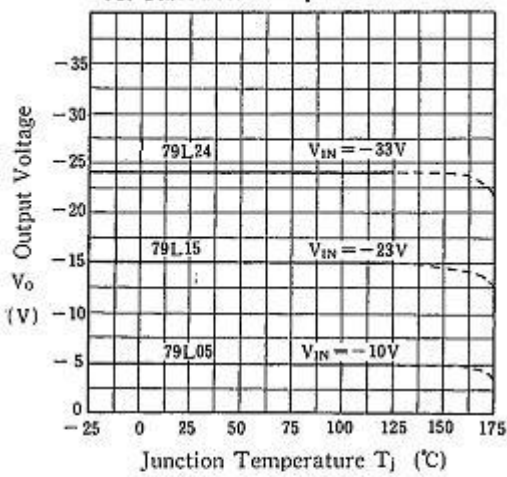
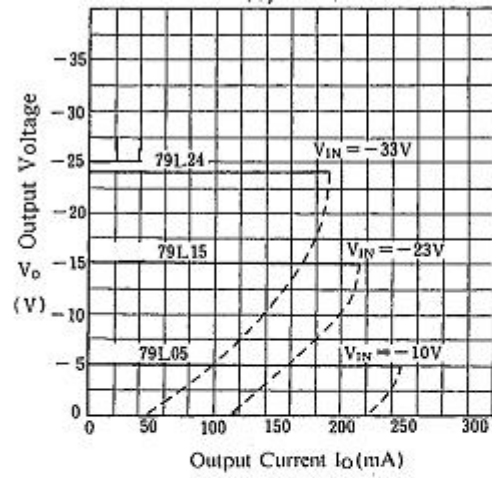
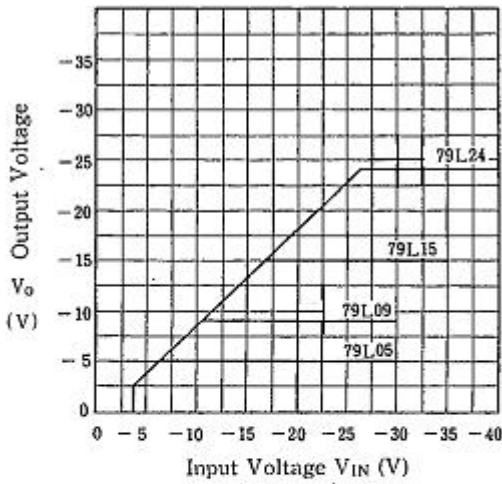
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
Output voltage	V_o	25°C	-4.8	-5.0	-5.2	V	
		0-125 $^\circ\text{C}$	$-7V \leq V_i \leq -20V, I_o=1mA \sim 40mA$	-4.75	-5.0	-5.25	V
			$I_o=1mA \sim 70mA$	-4.75	-5.0	-5.25	V
Load Regulation	ΔV_o	$I_o=1mA \sim 100mA$ 25°C		20	60	mV	
		$I_o=1mA \sim 40mA$ 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 $^\circ\text{C}$			1.5	mA	
	ΔI_q	$1mA \leq V_i \leq 40mA$ 0-125 $^\circ\text{C}$			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 $^\circ\text{C}$	41	49		dB	
Dropout Voltage	V_d	25°C		1.7		V	

TYPICAL APPLICATION

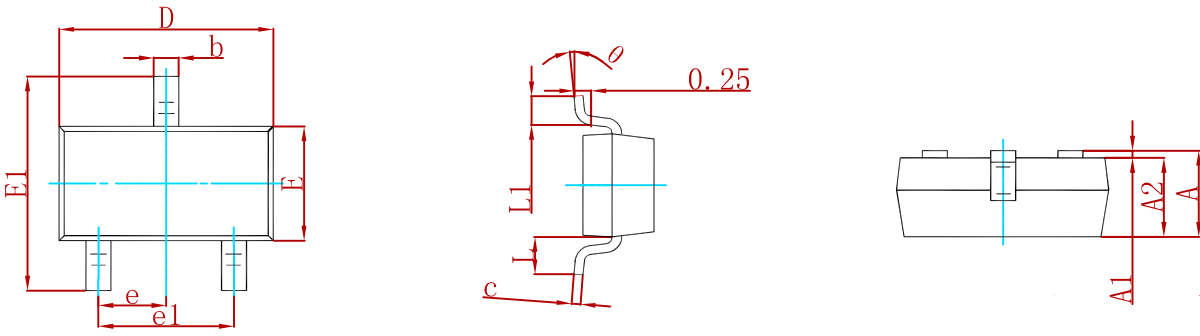


Note : Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

Typical Characteristics

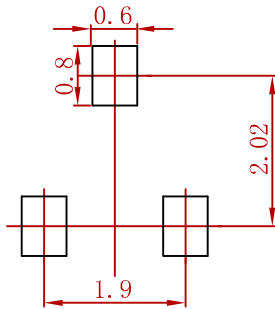


PACKAGE MECHANICAL DATA



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

Suggested Pad Layout



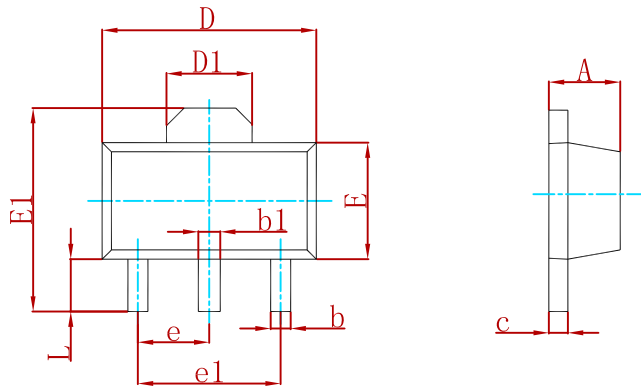
Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

REEL SPECIFICATION

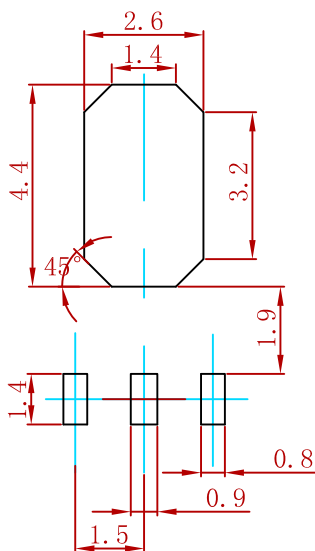
P/N	PKG	QTY
MS79L05S	SOT-23	3000

PACKAGE MECHANICAL DATA



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047

Suggested Pad Layout



Note:
 1. Controlling dimension: in millimeters.
 2. General tolerance: ± 0.05 mm.
 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
MS79L05	SOT-89	1000

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