

■ Features

- Maximum output current
 I_{OM} : 0.1A
- Output voltage
 V_O : 5V
- Continuous total dissipation
 P_D : 0.6 W ($T_a = 25^\circ C$)



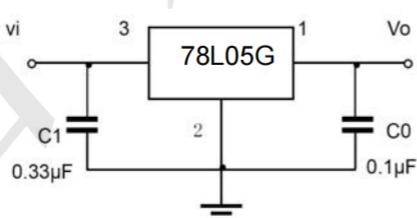
■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Value	Unit
Input Voltage	V_i	30	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	160	°C/W
Operating Junction Temperature Range	T_{OPR}	-40~+125	°C
Storage Temperature Range	T_{STG}	-65~+150	°C

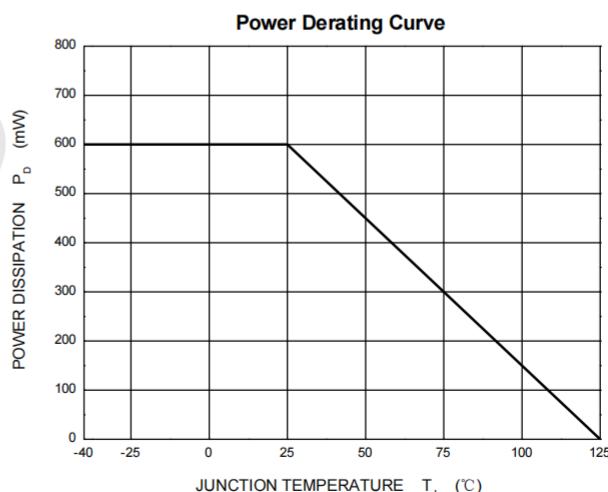
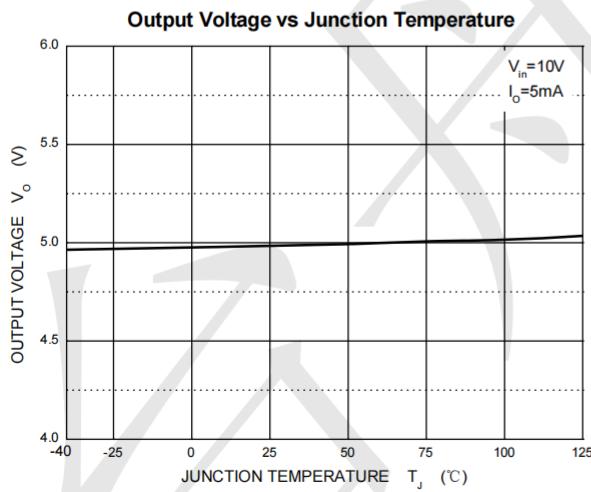
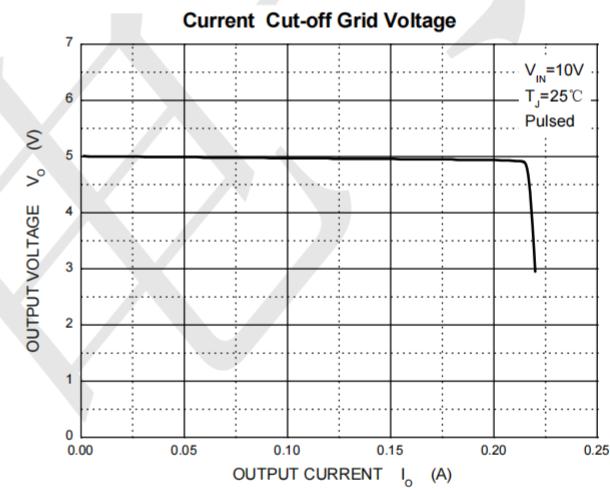
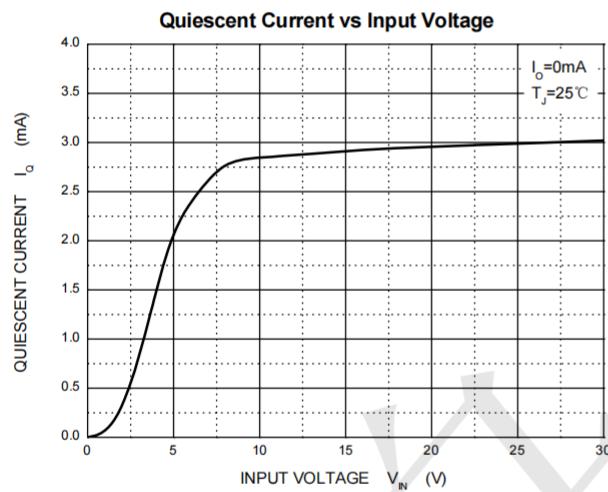
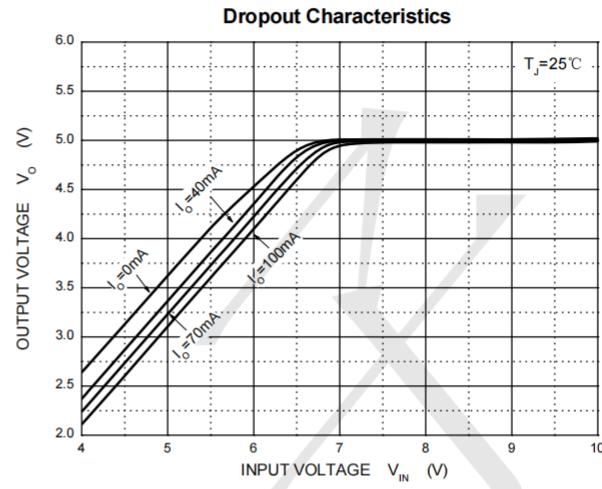
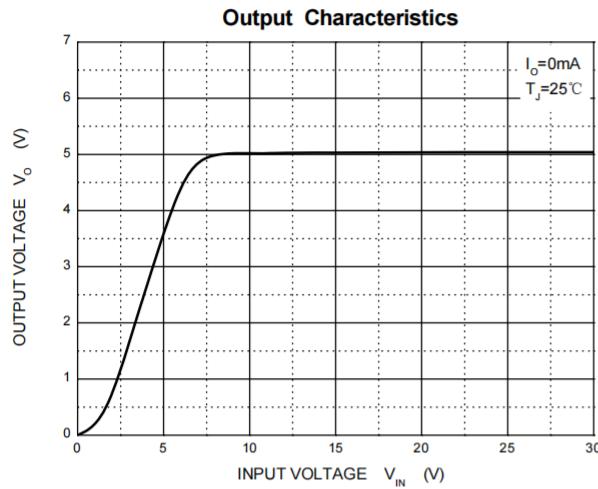
■ Electrical Characteristics ($V_i=10V, I_o=40mA, 0^\circ C < T_j < 125^\circ C, C_1=0.33\mu F, C_0=0.1\mu F$, unless otherwise specified)

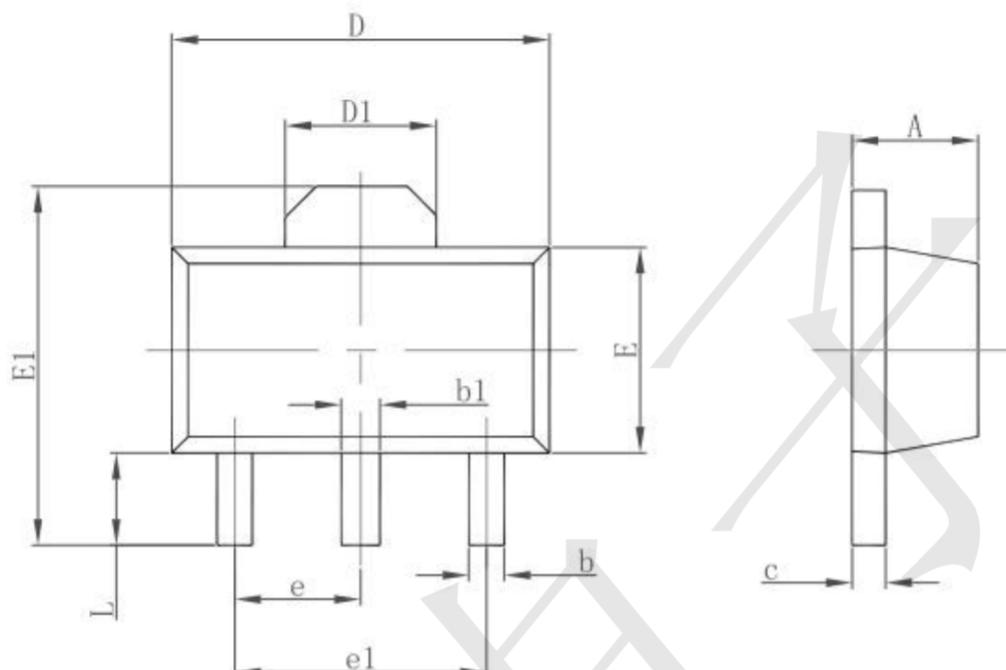
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V_o	25°C	4.80	5.0	5.20	V
			4.85	5.0	5.15	V
			4.90	5.0	5.10	V
		7V≤ V_i ≤20V, $I_o=1mA$ ~40mA	4.75	5.0	5.25	V
Load Regulation	ΔV_o	$I_o=1mA$ ~70mA	4.75	5.0	5.25	V
		$I_o=1mA$ ~100mA	25°C	15	60	mV
Line regulation	ΔV_o	$I_o=1mA$ ~40mA	25°C	8	30	mV
		7V≤ V_i ≤20V	0-125°C	32	150	mV
Quiescent Current	I_q	8V≤ V_i ≤20V	25°C	26	100	mV
		8V≤ V_i ≤20V	25°C	3.8	6	mA
Quiescent Current Change	ΔI_q	8V≤ V_i ≤20V	0-125°C		1.5	mA
		1mA≤ V_i ≤40mA	0-125°C		0.1	
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C	42		$\mu V/V_o$
Ripple Rejection	RR	8V≤ V_i ≤20V, f=120Hz	0-125	41	49	dB
Dropout Voltage	V_d		25°C	1.7		V

■ Typical application.



Typical Electrical Characteristic Curves



Package information**SOT89-3**www.sot23.com.tw

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [LDO Voltage Regulators](#) category:

Click to view products by [TECH PUBLIC](#) manufacturer:

Other Similar products are found below :

[AP7363-SP-13](#) [NCV8664CST33T3G](#) [L79M05TL-E](#) [L9454](#) [AP7362-HA-7](#) [PT7M8202B12TA5EX](#) [TCR3DF185,LM\(CT](#) [TLF4949EJ](#) [L9708](#)
[L970813TR](#) [NCP4687DH15T1G](#) [NCV8703MX30TCG](#) [NCV4269CPD50R2G](#) [AP7315-25W5-7](#) [AP2111H-1.2TRG1](#) [ZLDO1117QK50TC](#)
[AZ1117ID-ADJTRG1](#) [NCP114BMX075TCG](#) [MC33269T-3.5G](#) [TLE4471GXT](#) [AP7315-33SA-7](#) [NCV4266-2CST33T3G](#) [NCP715SQ15T2G](#)
[NCV8623MN-50R2G](#) [NCV563SQ18T1G](#) [NCV8664CDT33RKG](#) [NCV4299CD250R2G](#) [NCP715MX30TBG](#) [NCV8702MX25TCG](#)
[L974113TR](#) [TLE7270-2E](#) [NCV562SQ25T1G](#) [NCP715MX53TBG](#) [AP2202K-2.6TRE1](#) [NCV8170BMX300TCG](#) [NCV8152MX300180TCG](#)
[NCP700CMT45TBG](#) [AP7315-33W5-7](#) [LD56100DPU18R](#) [LD56100DPU28R](#) [NCP154MX180300TAG](#) [AP2113AMTR-G1](#) [MP2013AGG-5-P](#)
[NCV8775CDT50RKG](#) [NJM2878F3-45-TE1](#) [S-1313D18-N4T1U4](#) [AP7343D-31FS4-7B](#) [AP7315-30W5-7](#) [AZ1117ID-1.2TRG1](#)
[XC6215B3027R-G](#)