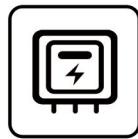


自主封測 品質把控 售後保障

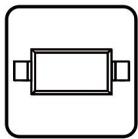
WEB | WWW.TDSEMIC.COM



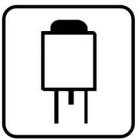
電源管理



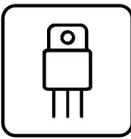
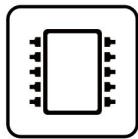
顯示驅動



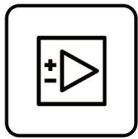
二三極管 LDO穩壓器



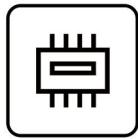
觸摸芯片



MOS管



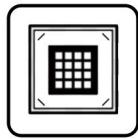
運算放大器



存儲芯片



MCU



串口通信

LM7805-TD

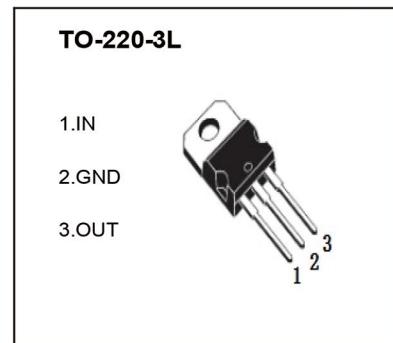
產品規格說明書

TO-220-3L Plastic-Encapsulate Voltage Regulators

Three-terminal positive voltage regulator

FEATURES

Maximum Output current I_{OM} : 1.5 A
Output voltage V_o : 5V
Continuous total dissipation
 P_D : 1.5 W ($T_a = 25^\circ C$)
15 W($T_c = 25^\circ C$)



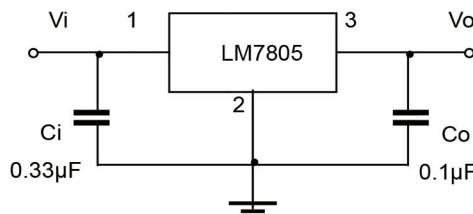
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	83.3	°C/W
Thermal Resistance from Junction to Case	$R_{\theta JC}$	8.3	°C/W
Operating Junction Temperature Range	T_{OPR}	0~+150	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

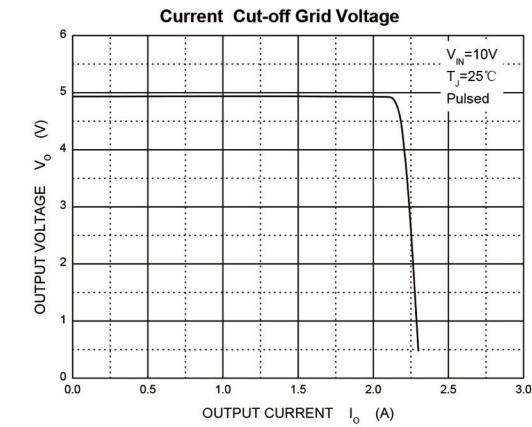
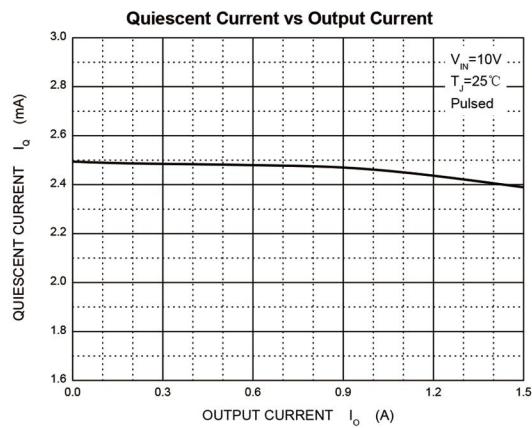
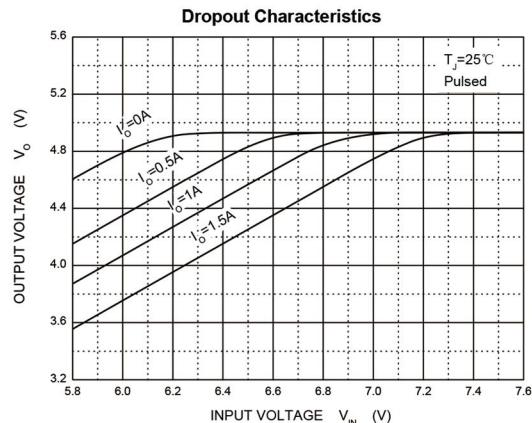
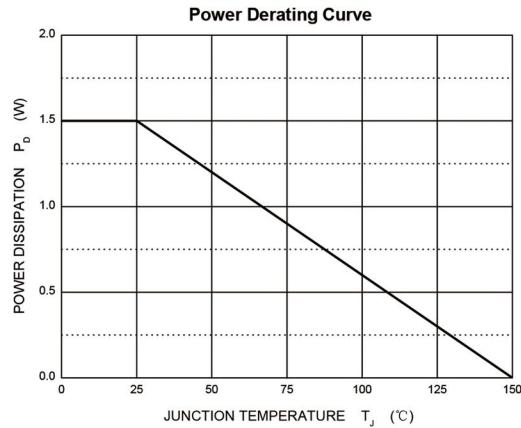
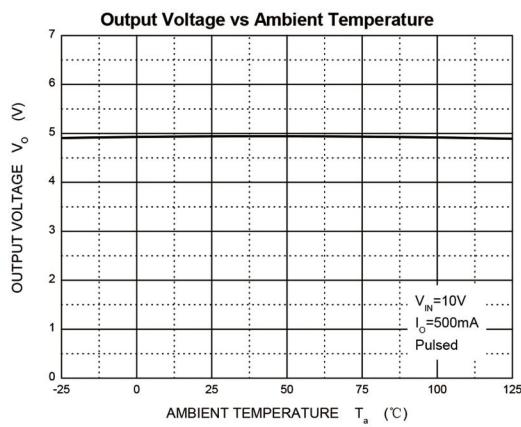
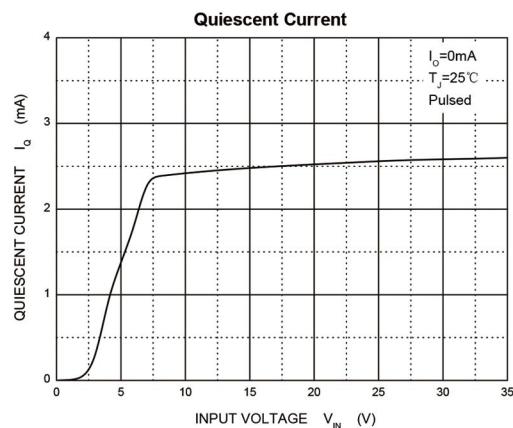
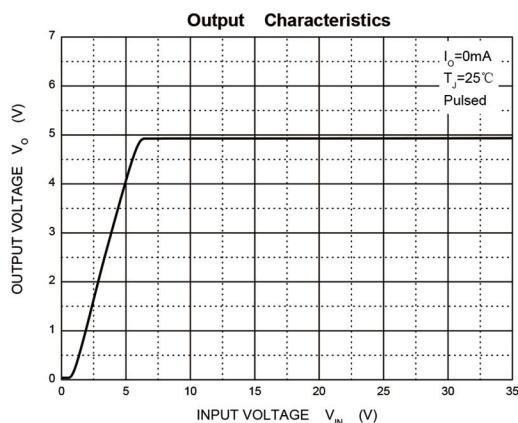
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=10V, I_o=500mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V_o	25°C	4.8	5.0	5.2	V
		7V≤ V_i ≤20V, $I_o=5mA-1A$, $P\leq 15W$	0-125°C	4.75	5.00	5.25
Load Regulation	ΔV_o	$I_o=5mA-1.5A$	25°C		9	mV
		$I_o=250mA-750mA$	25°C		4	mV
Line regulation	ΔV_o	7V≤ V_i ≤25V	25°C		4	mV
		8V≤ V_i ≤12V	25°C		1.6	mV
Quiescent Current	I_q		25°C		5	mA
Quiescent Current Change	ΔI_q	7V≤ V_i ≤25V	0-125°C		0.3	mA
		5mA≤ I_o ≤1A	0-125°C		0.03	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C		42	uV
Output voltage drift	$\Delta V_o/\Delta T$	$I_o=5mA$	0-125°C		-1.1	mV/°C
Ripple Rejection	RR	8V≤ V_i ≤18V, f=120Hz	0-125°C	62	73	dB
Dropout Voltage	V_d	$I_o=1A$	25°C		2	V
Output resistance	R_o	f=1KHz	25°C		10	mΩ
Short Circuit Current	I_{sc}		25°C		230	mA
Peak Current	I_{pk}		25°C		2	A

TYPICAL APPLICATION



D,Oct,2014



D,Oct,2014