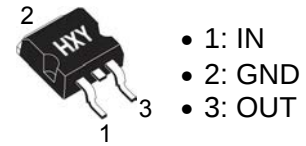




Features

- Maximum output current I_{OM} : 1A
- Output voltage V_O : 5V
- Continuous total dissipation P_D : 1.5 W ($T_a = 25^\circ\text{C}$)



TO-263S
(TO-263-2)

Maximum Ratings ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Thermal Resistance from Junction to Air	$R_{\theta JA}$	66.7	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_{OPR}	-25~+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ\text{C}$

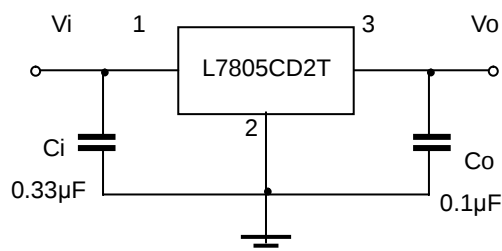
Electrical Characteristics($T_a=25^\circ\text{C}$ unless otherwise specified)

($V_i=10\text{V}$, $I_o=500\text{mA}$, $C_i=2.2\mu\text{F}$, $C_o=1\mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output voltage	Vo		25°C	4.8	5.0	5.2	V
		7V≤V _i ≤20V, I _o =5mA-1A	-25-125°C	4.75	5.00	5.25	V
Load Regulation	△Vo	I _o =5mA-1A	25°C		9	100	mV
		I _o =250mA-750mA	25°C		4	50	mV
Line regulation	△Vo	7V≤V _i ≤25V	25°C		4	100	mV
		8V≤V _i ≤12V	25°C		1.6	50	mV
Quiescent Current	Iq		25°C		5	8	mA
Quiescent Current Change	△Iq	7V≤V _i ≤25V	-25-125°C		0.3	1.3	mA
		5mA≤I _o ≤1A	-25-125°C		0.03	0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25°C		42		μV/Vo
Output voltage drift	△Vo/△T	I _o =5mA	-25-125°C		-1.1		mV/ °C
Ripple Rejection	RR	8V≤V _i ≤18V,f=120Hz	-25-125°C	62	73		dB
Dropout Voltage	Vd	I _o =1A	25°C		2		V
Output resistance	R _O	f=1KHz	-25-125°C		10		m Ω
Short Circuit Current	Isc		25°C		230		mA
Peak Current	Ipk		25°C		2.2		A

* Pulse test.

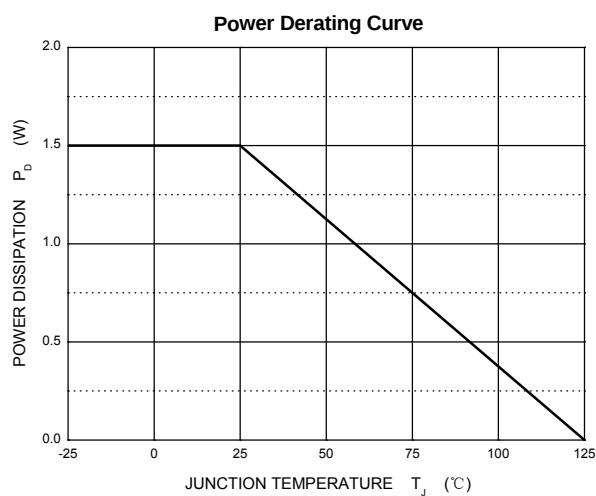
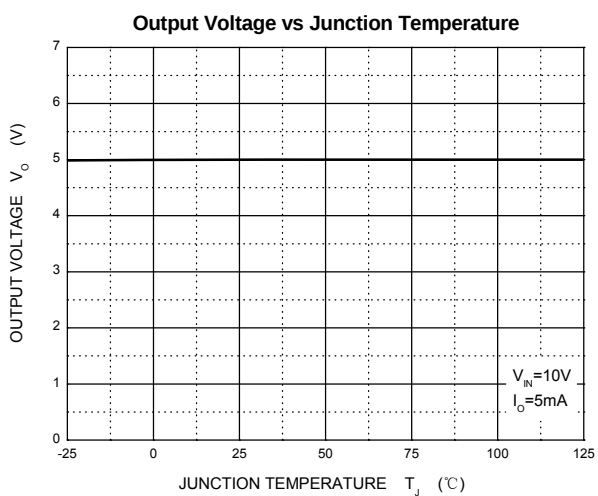
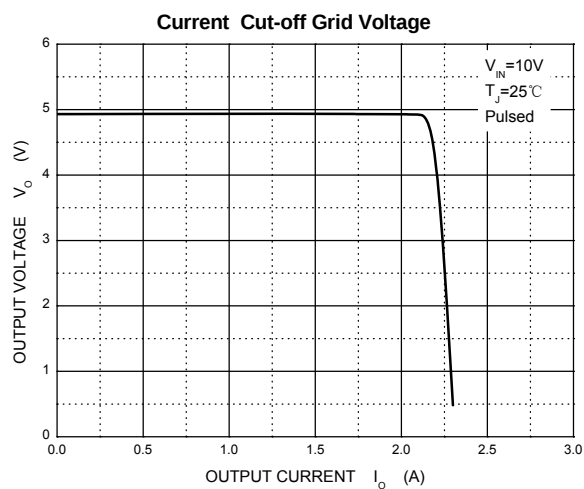
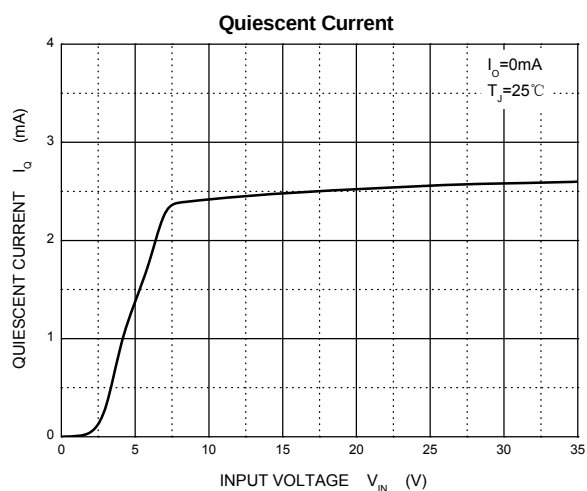
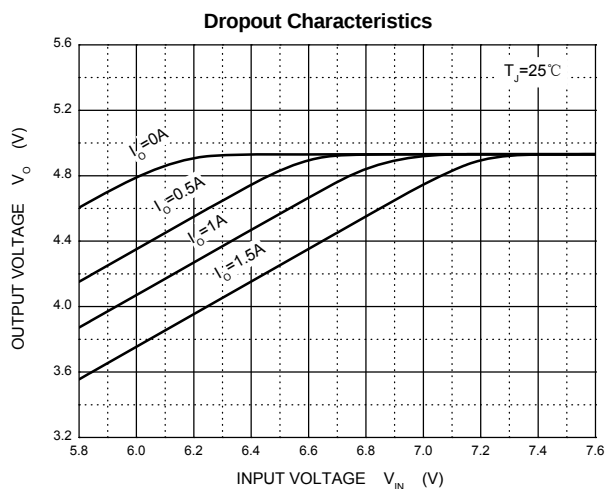
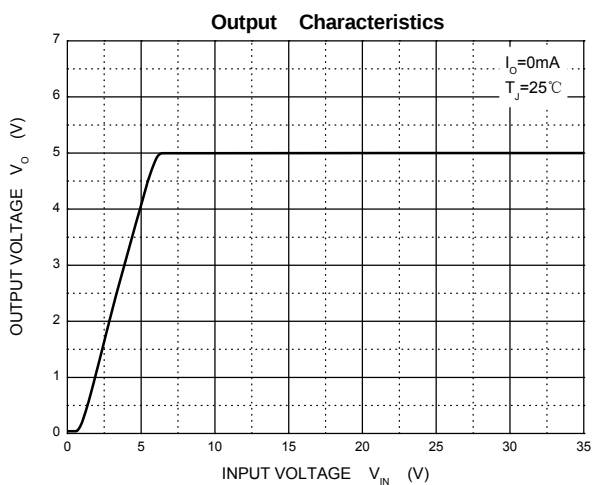
Typical Application



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

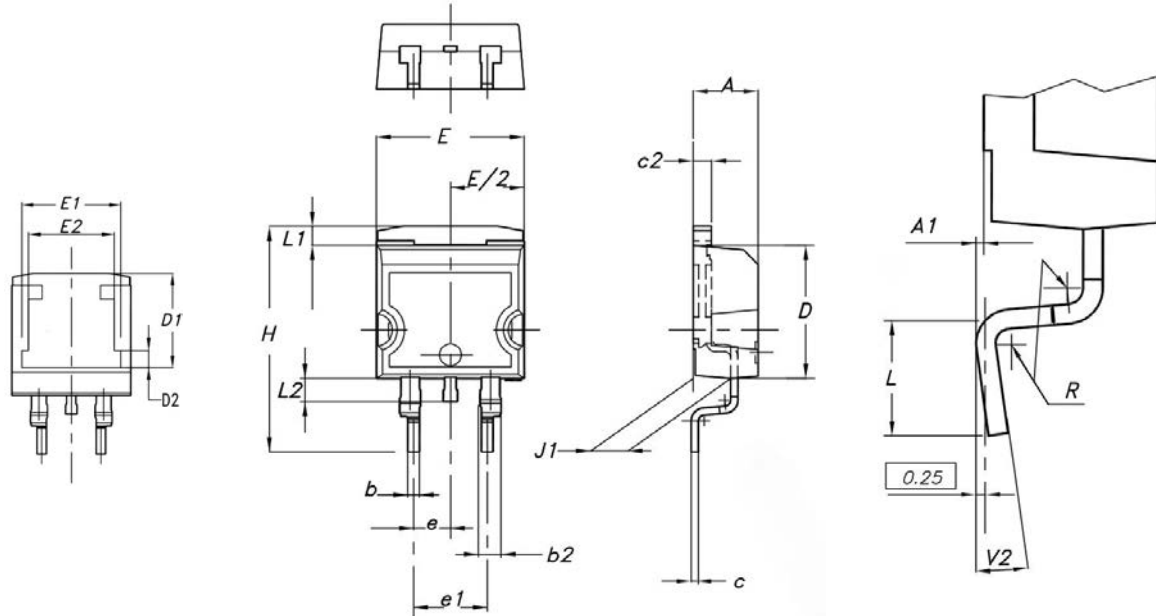


Typical Characteristics





Package Information
TO-263S(TO-263-2)



Dim.	mm		
	Min.	Typ.	Max.
A	4.40		4.60
A1	0.03		0.23
b	0.70		0.93
b2	1.14		1.70
c	0.45		0.60
c2	1.23		1.36
D	8.95		9.35
D1	7.50	7.75	8.00
D2	1.10	1.30	1.50
E	10		10.40
E1	8.50	8.70	8.90
E2	6.85	7.05	7.25
e		2.54	
e1	4.88		5.28
H	15		15.85
J1	2.49		2.69
L	2.29		2.79
L1	1.27		1.40
L2	1.30		1.75
R		0.4	
V2	0°		8°



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