/ Descriptions

TO-263 ذ

Voltage Regulator in a TO-263 Plastic Package.

/ Features

ذ ڑ ڑ ح 1.5A, ⌽ص ں ث

3-Terminal regulators ,output current up to 1.5A, internal thermal overload protection and short-circuit limiting, HF Product.

/ Applications

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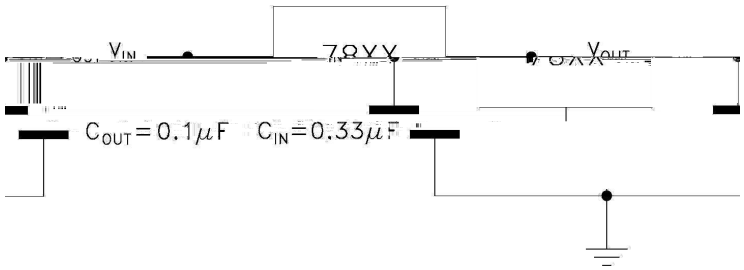
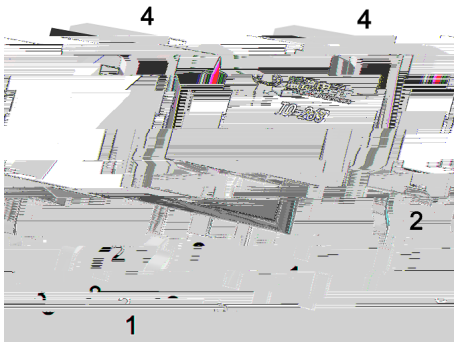
Voltage Regulator.

/ / Equivalent Circuit or Application Circuit



/ Pinning



PIN1 IN PIN 2 4 GND PIN 3 OUT

/ Marking

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See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

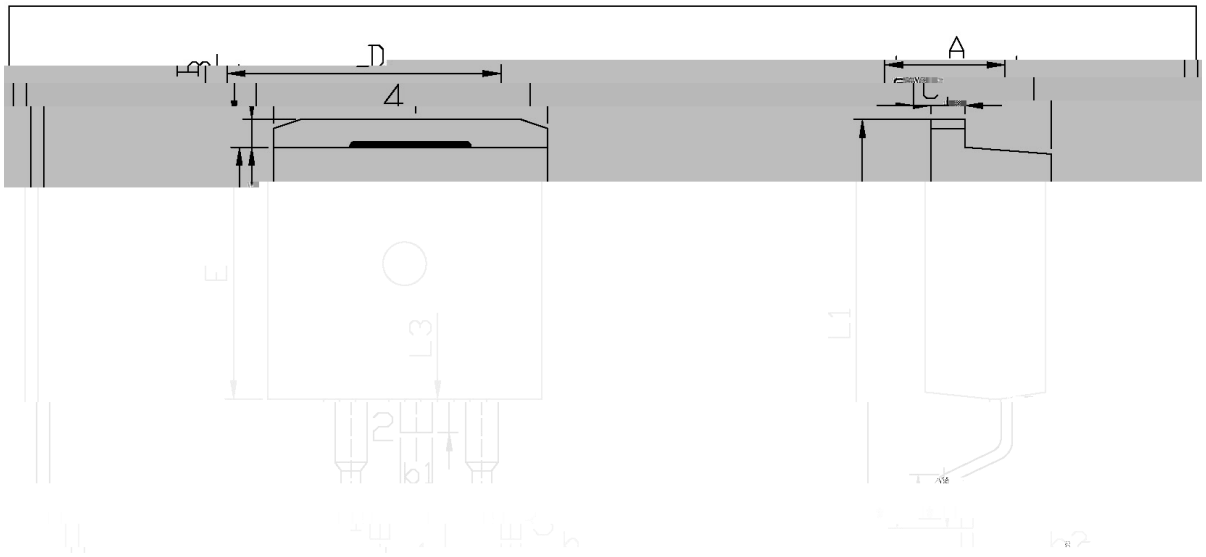
Parameter	N Symbol	Rating	Unit
Input voltage	V_I	35	V
Thermal Resistance Junction-ambient	R_{JA}	62.5	/W
Thermal Resistance Junction-case	R_{JC}	5.0	/W
Junction Temperature	T_J	150	
Operating Junction Temperature Range	T_{OPR}	-40 150	
Storage temperature range	T_{stg}	-65 150	

/ Electrical Characteristics(Ta=25 V_i=10V,I_o=500mA unless otherwise specified)

Parameter	N Symbol	; Test Conditions	Min	Typ	Max	Unit
Output Voltage	V_O	T_j=25	4.8	5.0	5.2	V
		V_i=7V-20V Io=5mA-1A Po 15W	4.75	5.0	5.25	V
Load Regulation	V_{Load}	T_j=25 Io=5mA-1.5A			100	mV
		T_j=25 Io=250mA-750mA			50	mV
Line Regulation	V_{Line}	T_j=25 Vi=7V-25V		3.0	100	mV
		T_j=25 Vi=8V-12V		1.0	50	mV
Quiescent Current	Iq	T_j=25			8.0	mA
Quiescent Current Change	Iq	V_i=7V-25V			0.8	mA
		Io=5mA-1A			0.5	mA
Output Voltage Drift	Vo/ T	Io=5mA		-1.1		mV/
Output Noise Voltage	eN	B=10Hz-100KHz T_j=25			40	V/Vo
Supply Voltage Rejection	SVR	V_i=8V-18V f=120Hz	62			dB
Dropout Voltage	Vd	Io=1A T_j=25		2.0		V
Output Resistance	Ro	f=1KHz		17		m
Short Circuit Current	Isc	V_i=35V T_j=25		0.75		A
Short Circuit Peak Current	Iscp	T_j=25		2.2		A

/ Electrical Characteristic Curve

/ Package Dimensions



	Max		Min	Max		Min
	9.40	A	4.30	4.70	E	9.00
	2.74	B	1.00	1.40	e1	2.34
15.00	16.00	b1	1.15	1.35	L1	

78B05

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)

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1 أ 150 180 ژ 60 90sec;

2 245±5 ژ 5±0.5sec;

3 ھ 2 10 /sec.

Note:

1.Preheating:150~180 , Time:60~90sec.

2.Peak Temp.:245±5 , Duration:5±0.5sec.

3.