

/ Descriptions

TO-263

Voltage Regulator in a TO-263 Plastic Package.

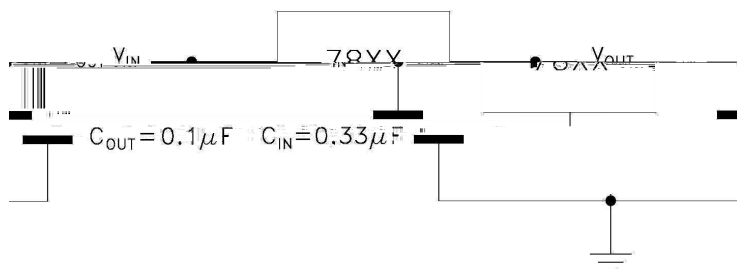
/ Features

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

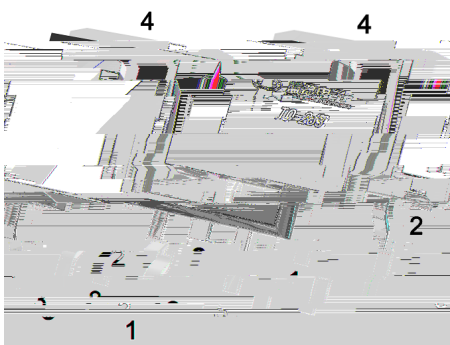
/ Applications

Voltage Regulator.

/ Equivalent Circuit or Application Circuit



/ Pinning



PIN1 IN PIN 2 4 GND PIN 3 OUT

/ Marking

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 I _o =5mA-1A P _o 15W	4.75	5.0	5.25	V
Load Regulation	V _{Load}	T _J =25 I _o =5mA-1.5A			100	mV
		T _J =25 I _o =250mA-750mA			50	mV
Line Regulation	V _{Line}	T _J =25 V _I =7V-25V		3.0	100	mV
		T _J =25 V _I =8V-12V		1.0	50	mV
Quiescent Current	I _q	T _J =25			8.0	mA
Quiescent Current Change	I _q	V _I =7V-25V			0.8	mA
		I _o =5mA-1A			0.5	mA
Output Voltage Drift	V _O / T	I _o =5mA		-1.1		mV/
Output Noise Voltage	e _N	B=10Hz-100KHz T _J =25			40	V/V _O
Supply Voltage Rejection	SVR	V _I =8V-18V f=120Hz	62			dB
Dropout Voltage	V _d	I _o =1A T _J =25		2.0		V
Output Resistance	R _O	f=1KHz		17		m
Short Circuit Current	I _{sc}	V _I =35V T _J =25		0.75		A
Short Circuit Peak Current	I _{scp}	T _J =25		2.2		A

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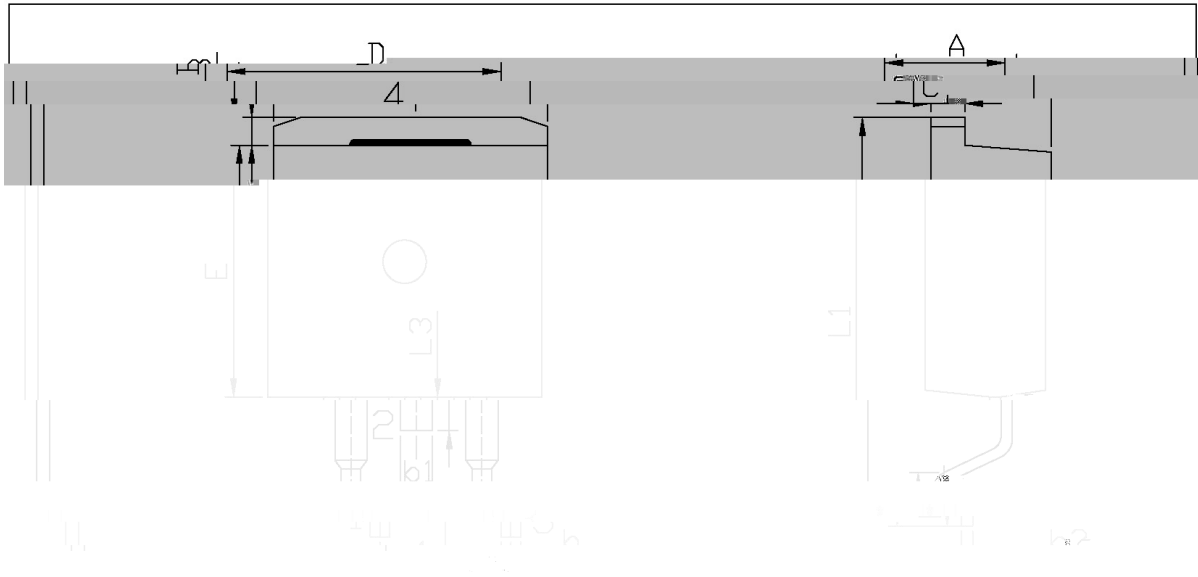


蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

/ Electrical Characteristic Curve

/ Package Dimensions



Max		Min		Max		Min	
9.40	A	4.30	4.70	FL	9.00		
2.74	B	1.00	1.40	el	2.34		
4088	58420	0.00	0.00	0.00	0.00	0.00	0.00
15.00	16.00	b1	1.15	1.35	1.1		

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

- ب
- 1 أ 150 180 ج 60 90sec;
 - 2 245±5 ج 5±0.5sec;
 - 3 د 2 10 /sec.

Note:

- 1.Preheating:150~180 , Time:60~90sec.
- 2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3.