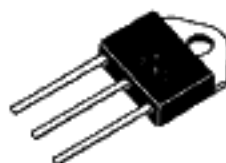


voltage regulators

NEW

TDB0123 SP3

5 V - 3 A regulator encapsulated in high-dissipation plastic package



TOP 3

- 20 W, as good as a metal TO 3
- Reduced size, easy to handle.
- Same price as a plastic package

Today, all those electrical specifications which were up to now reserved to TO 3 regulators, are available in a low-cost and performant package.

VOLTAGE REGULATORS

CHARACTERISTIC	SYMBOL	UNIT	FIXED														ADJUSTABLE			
Output voltage	V_O	V	+5	+5	+12	+15	+5	+5	+12	+15	-5	-12	-15	-5	-12	-15	1.2 to 37	1.2 to 37	-1.2 to -37	-1.2 to -37
Output current	I_O	A	3	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Temperature range	—	°C	0 to 125	0 to 150	0 to 150	0 to 150	-40 to +150	-40 to +150	-40 to +150	-40 to +150	0 to 125	0 to 125	0 to 125	-40 to +125	-40 to +125	-40 to +125	0 to 125	-40 to +150	0 to 125	-40 to +150

	TDB0123	TDB2805	TDB2812	TDB2815	TDF0123	TDF2805	TDF2812	TDF2815	TDB2805	TDB2812	TDB2815	TDF2805	TDF2812	TDF2815	TDB0117	TDF0117	TDB0137	TDF0137	Plastic TOP 3
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SP3 : TOP 3 suffix - PRO-ELECTRON codification

HIGH POWER REGULATORS ($T_{amb} = +25^\circ C$)

CHARACTERISTIC	SYMBOL	UNIT	FIXED					ADJUSTABLE			
Input voltage	V_I max.	V	+35	+40	+20	-35 to -40	40*	40*	40	35*	
Output voltage	V_O typ.	V	+5	+5 to +24	+5	-5 or -12 to -15	1.2 to 37	-1.2 to -37	2.85 to 37	1.2 to 32	
Output current	I_O max.	A	1.5	1.5	3	1.5	1.5	-1.5	2	5	
Line regulation	K_{V_I} typ.	%/ V_O	0.1	0.1	0.1	0.1	0.01	0.01	0.03	0.005	
Load regulation	K_{V_O} typ.	%/ V_O	0.3	0.3	0.5	0.2	0.1	0.3	0.1	0.1	
Long term stability	K_{V_H} max.	%/1000h	0.4	0.4	0.7	0.4	1	1	0.3 typ	1	

				SFC 2309	SFC 2800 (series)	TD-0123	TD-2800 (series)	TD-0117	TD-0137	TDA0200	TE-0338	Plastic TO 220
												Plastic SIL 5
												Plastic TOP 3
												Steel case TO 3

* $(V_I - V_O)$ max.