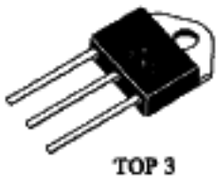
NEW

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

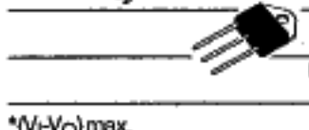
CHARACTERISTIC	SYMBOL	UNIT	FIXED													ADJUSTABLE			
Output voltage	V_O	V	+5	+5	+12	+15	+5	+5	+12	+15	−5	−12	−15	−5	−12	−15	1.2 to 37	1.2 to 37	−1.2 to −37	−1.2 to −37
Output current	I_O	A	3	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Temperature range	—	°C	0 to 125	0 to 150	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	TDB2905	TDB2912	TDB2915	TDF2905	TDF2912	TDF2915	TDB0117	TDF0117	TDB0137	TDF0137	
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Plastic TOP 3

SP3 : TOP 3 suffix - PRO-ELECTRON codification

HIGH POWER REGULATORS (T_{amb} = +25° 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 −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_{VI} typ.	%/V_O	0.1	0.1	0.1	0.1	0.01	0.01	0.03	0.005
Load regulation	K_{VO} typ.	%/V_O	0.3	0.3	0.5	0.2	0.1	0.3	0.1	0.1
Long term stability	K_{VH} max.	%/1000H	0.4	0.4	0.7	0.4	1	1	0.3 typ	1

	SFC 2909	SFC 2800 (series)	TD•0123	TD•2900 (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.