

Delta Sheet BTS 425L1 versus Substitutes

Description	Symbol	Old	Subst. 1	Subst. 2	Subst. 3	Subst. 4	Subst. 5
Device Variant	Name	BTS 425L1	BTS 428L2	BTS 436L2	BTS 426L1	BSP 772	N/A
On-state Resistance (max.)	R _{ds(on)}	60mΩ	60mΩ	38mΩ	60mΩ	60mΩ	
No. of Channels		1 x	1 x	1 x	1 x	1 x	
Diagnosis (protection)	Status / Sense Open load Over temp. Short to GND Short to V _{bb} Undervoltage Overvoltage	Status ON ON ON via over temp OFF – (latch) – (latch)	Status ON ON ON via over temp – – – (zener)	Status ON ON ON via over temp – – – (zener)	Status ON ON ON via over temp OFF – (latch) – (latch)	None – – – – – – (zener)	
Package	Name Version	TO 220AB/5 (A/B/C) **	TO 252-5 (DPAK)	TO 220-5 TO 263-5	TO 220AB/5 (A/B/C)	P-DSO-8	
Operating Voltage (min./max.)	V _{bb(on)}	5.0 ... 24V	4.75 ... 41V	4.75 ... 41V	5.0 ... 34V	5.0 ... 34V	
Nominal Load Current (typ.)	I _{L(NOM./ISO)}	7.0A (ISO)	7.0A (ISO)	9.8A (ISO)	7.0A (ISO)	3.1A (NOM.)	
Current limitation (typ.)	I _{L(lim.); I_{L(SCp)}}	30A	22A	51A	25A	17A	
Repetitive short circuit limit (typ. @ 25°C)	I _{L(SCr)}	17A	17A	40A	16A	12A	
Turn-on / off time (max.)	T _{on} T _{off}	400μs 450μs	200μs 200μs	200μs 250μs	400μs 450μs	180μs 230μs	

* Device still in development / please check actual data sheet

** (A = staggered / B = straight / C = SMD)