

Electrical Specifications

Conditions: $T_A = -40 - 85^\circ\text{C}$, $V_v = 9 - 14 \text{ V DC}$, $V_{DD} = 0.7 - 5.3 \text{ V DC}$, unless otherwise noted.

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Parameter	Output	Min.	Typ.	Max.	Units	Notes & Conditions
Protection characteristics						
Output overcurrent protection	All	22	-	45	A	Hiccup mode
Output short circuit protection	All	-	-	-	-	Hiccup mode
Output overvoltage protection	All	110	-	120	%	Self-recovery
Overtemperature protection Threshold Hysteresis	All	115 0	- 5	135 10	°C °C	Self-recovery The values are obtained by measuring the temperature of the hottest power component on the top surface of the converter.
Dynamic characteristics						
Overshoot amplitude Recovery time	$\leq 1.2 \text{ V}$	- -	- -	60 200	mV μs	Current change rate: 1 A/ μs load : 25% - 50% - 25%; 50% - 75% - 50%
Overshoot amplitude Recovery time	$> 1.2 \text{ V}$	- -	- -	5 200	% μs	Current change rate: 1 A/ μs load : 25% - 50% - 25%; 50% - 75% - 50%
Efficiency						
100% load	0.7 V	79.5	81.0	-	%	$V_{in} = 12 \text{ V}; T_A = 25^\circ\text{C}$
	0.9 V	83.0	84.0	-		
	1.0 V	84.0	85.0	-		
	1.2 V	85.5	86.5	-		
	1.5 V	87.0	88.0	-		
	1.8 V	88.5	89.5	-		
	2.5 V	89.5	91.0	-		
	3.3 V	91.0	92.0	-		
	5.0 V	92.0	93.5	-		
	5.3 V	92.5	94.0	-		
Other characteristics						
Remote on/off voltage Low level High level	All	-0.2 2.0	- -	0.5 5.0	V V	- Pulled high internally (Connecting to an external voltage is not allowed.)
Reliability characteristics						
Mean time between failures (MTBF)	All	-	1.5	-	Million hours	Telcordia SR332; $V_{in} = 12 \text{ V}$; 80% load; Airflow = 1.5 m/s (300 FLM); $T_A = 40^\circ\text{C}$ (104°F);