



**Data Sheet Supplement
Version 1.0**

Dynamic Differential Hall Effect Sensor

TLE4928C E6547

For all parameters not specified in this document the TLE4926C-HT E6547 data sheet is valid.



Type	Marking	Ordering Code	Package
TLE4928C E6547	28D8	SP000718274	PG-SSO-3-92

1.1 Absolute Maximum Ratings

No.	Parameter	Symbol	min.	typ.	max.	Unit	Conditions	
1.1.1	Junction temperature	T_j	-40			°C	-	
						155	°C	2000 h (not additive)
						165	°C	1000 h (not additive)
						175	°C	168 h (not additive)
						195	°C	3x1 h (additive to the other life times).

1.2 Operating Range

No.	Parameter	Symbol	min.	typ.	max.	Unit	Conditions	
1.2.1	Operating junction temperature	T_j	-40			°C	-	
						155	°C	2000 h (not additive)
						165	°C	1000 h (not additive)
						175	°C	168 h (not additive) reduced signal quality permissible (e.g. jitter).
1.2.2	Power on time	t_{on}			1	ms	Time to achieve specified accuracy After power on the output of the IC is always in high-state. After internal resets output is locked ¹ .	

1.3 AC/DC Characteristics

Note: Not part of production testing, verified by design and characterization.

No.	Parameter	Symbol	min	typ	max	Unit	Remarks
1.3.1	Frequency range	f	0.006		8	kHz	Operation below 6Hz ²

¹ Output of the IC is locked in present state (high-state or low-state) after an internal reset is launched. This reset happens typically every 195ms when there is no output switching in either case. See also 1.3.2. A voltage reset causes a release of the output and output is in high state after power on again.

² Output will switch if magnetic signal is changing more than $2x |\Delta B_{min}|$ within offset recalibration time even below 6Hz once per magnetic edge, increased phase error is possible.

1.3.2	Offset recalibration time after last output change	t_{reset}	165	195	225	ms	Valid for calibrated mode Output locked to state before recalibration
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Revision History:**November 2009**

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