

UNISONIC TECHNOLOGIES CO., LTD

SK8509

LINEAR INTEGRATED CIRCUIT

HALL-EFFECT SENSOR IC

DESCRIPTION

SK8509 is a semiconductor integrated circuit utilizing the Hall effect. It has been so designed as to operate in the accurately track extremely small changes in magnetic flux density-changes generally too small to operate Hall-effect switches. This Hall IC is suitable for application to various kinds of sensors, contact-less switches, motion detectors, gear tooth sensors, and proximity detectors, and the like.

FEATURES

- * Wide Supply Voltage Range of 4V to 7V
- * Wide Temperature Operation Range of -20°C ~+85°C
- * The Life is Semipermanent because it Employs Contactless Parts

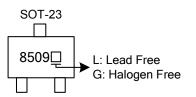
ORDERING INFORMATION

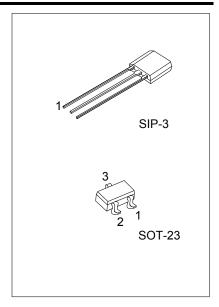
Ordering	Ordering Number		Pin Assignment			Deaking
Lead Free	Halogen Free	Package	1	2	3	Packing
SK8509L-AE3-R	SK8509G-AE3-R	SOT-23	0	Ι	G	Tape Reel
SK8509L-G03-B	SK8509G-G03-B	SIP-3	I	G	0	Tape Box
SK8509L-G03-K	SK8509G-G03-K	SIP-3	Ι	G	0	Bulk

Note: Pin Assignment: I: V_{CC} O: V_{OUT} G: GND

SK8509 <u>L-AE3</u> -R			
	(1)Packing Type	(1) B: Tape Box, K: Bulk, R: Tape Reel	
	(2)Package Type	(2) AE3: SOT-23, G03: SIP-3	
	(3)Lead Free	(3) G: Halogen Free, L: Lead Free	

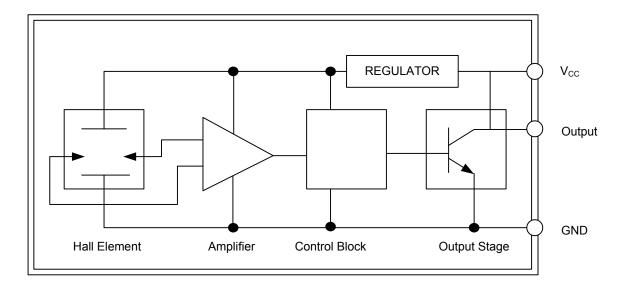
MARKING





SK8509

BLOCK DIAGRAM





■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V _{CC}	7V	V
Supply Current	Icc	10	mA
Operating Ambient Temperature	T _{OPR}	-20~+85	°C
Storage Temperature	T _{STG}	-55~+150	°C

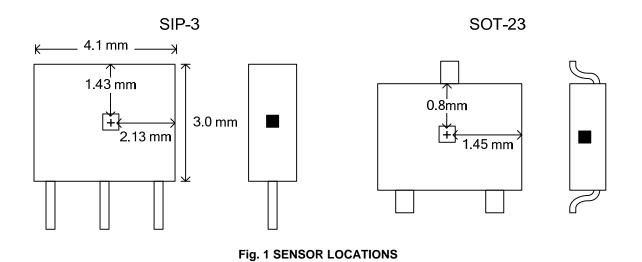
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, V_{CC}=5V)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Operating Voltage	V _{CC}		4		7	V
Quiescent Output Voltage	V _{OUT}	B=0G	2.25	2.50	2.75	V
Supply Current	Icc			3	10	mA
Sensitivity	ΔV_{OUT}	B=0G ~ ±900G	0.75	1.30	1.75	mV/G



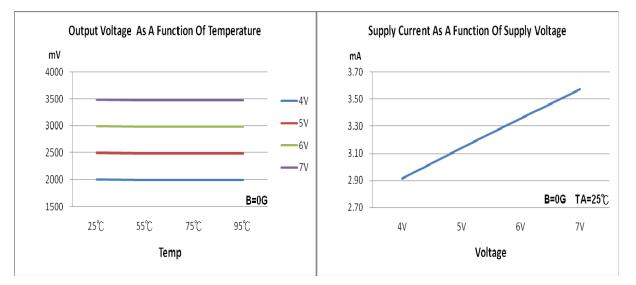
PACKAGE INFORMATION

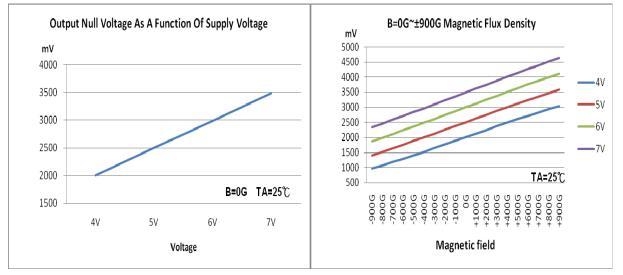


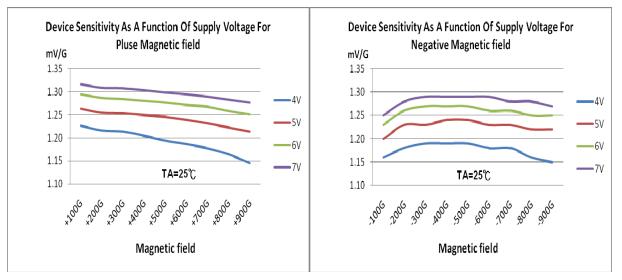


SK8509

TYPICAL CHARACTERISTICS









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