UNISONIC TECHNOLOGIES CO., LTD

SK8509

LINEAR INTEGRATED CIRCUIT

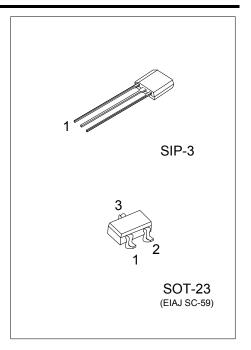
HALL-EFFECT SENSOR IC

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

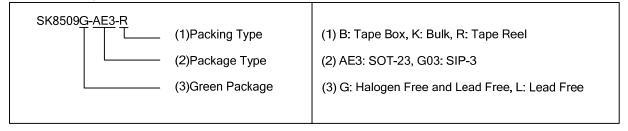
- * Wide Supply Voltage Range of 4V to 7V
- * Wide Temperature Operation Range of -20°C ~+85°C
- * The Life is Semipermanent because it Employs Contactless Parts



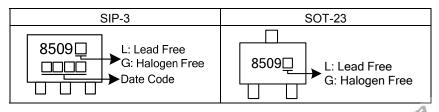
ORDERING INFORMATION

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

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

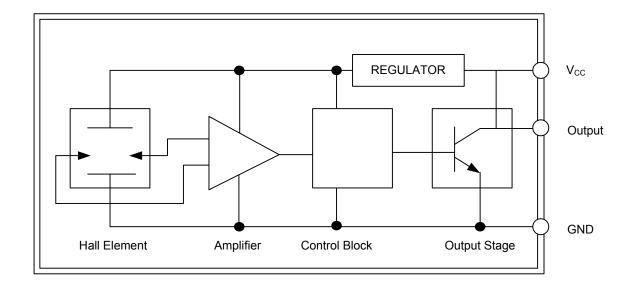


MARKING



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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	I _{CC}			3	10	mA
Sensitivity	ΔV_{OUT}	B=0G ~ ±900G	1.0	1.7	2.5	mV/G



PACKAGE INFORMATION

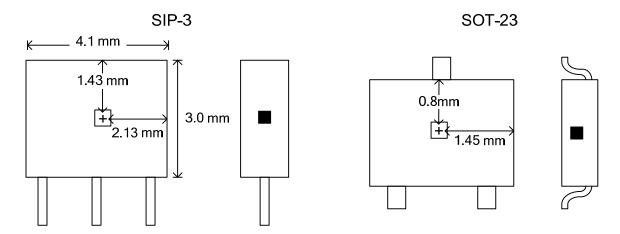
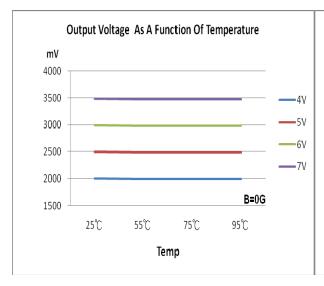
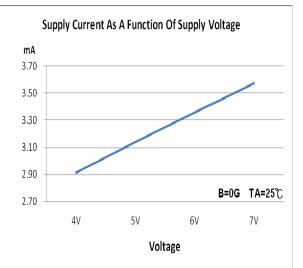


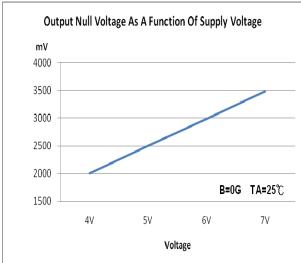
Fig. 1 SENSOR LOCATIONS

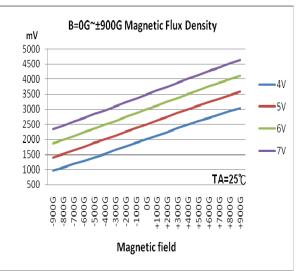
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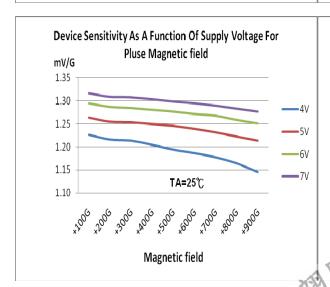
■ TYPICAL CHARACTERISTICS

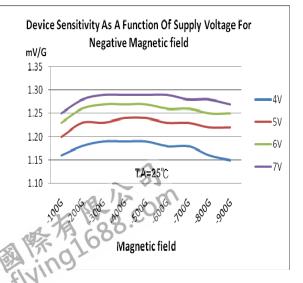












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