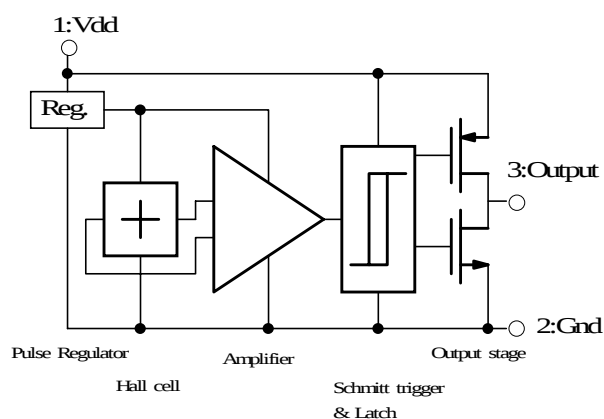


LOW POWER UNIPOLAR HALL EFFECT SWITCH EW-667

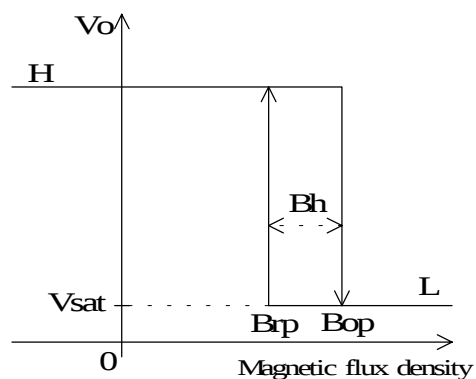
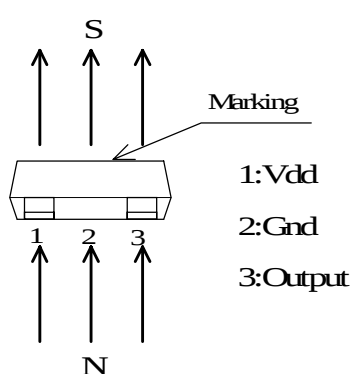
◆ FEATURES

- Low Power, $I_{dd}=5\mu A$ (typ. at $V_{dd}=3V$)
- Effective Performance at Low Magnetic Flux Density
- Highly Resistant to Mechanical Stress
- Stable Operation in Broad Temperature Range
- 3V Operation
- Compact Size Package
- Supplied by Taping

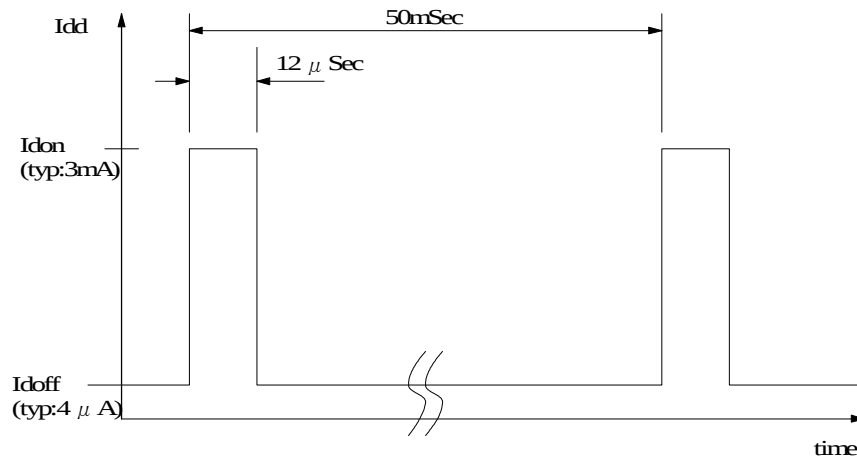
◆ FUNCTIONAL BLOCK DIAGRAM



◆ OPERATIONAL CHARACTERISTICS



◆ Icc PULSE DRIVING



◆ ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

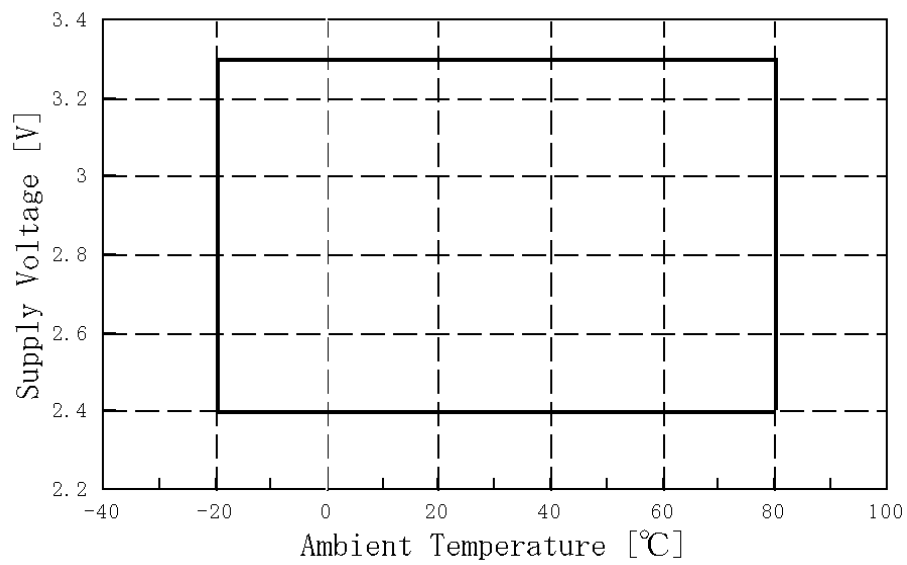
Item	Symbol	Limit	Unit
Supply Voltage	Vdd	-0.1 to 5	V
Output Current	Iout	±1	mA
Operating Temperature Range	Topr	-20 to 80	°C
Storage Temperature Range	Tstg	-40 to 125	°C

◆ ELECTRICAL CHARACTERISTICS (Ta = 25°C Vdd = 3V)

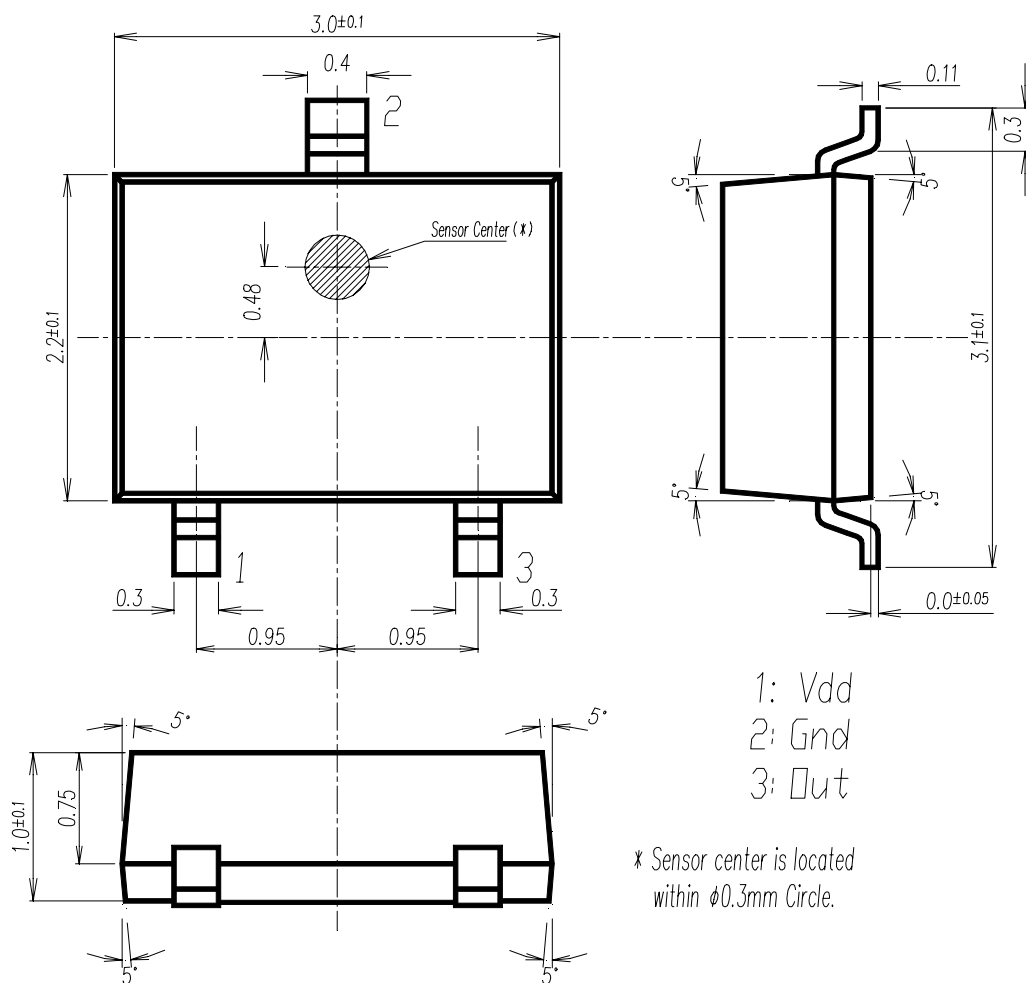
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	Vdd		2.4	3.0	3.3	V
Operate Point	Bop			3	6	mT
Release Point	Brp		0.5	2.4		mT
Hysteresis	Bh			0.6		mT
Period	Tp			50	100	mSec
Output High Voltage	VOH	Io=-1.0mA	Vdd-0.4			V
Output Low Voltage	VOL	Io=+1.0mA			0.4	V
Supply Current	Idd	Average		5	10	μA

1mT=10Gauss

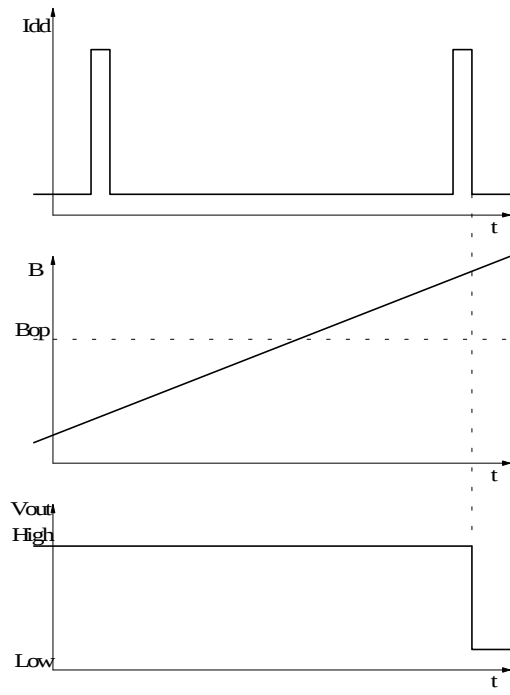
◆ Supply Voltage



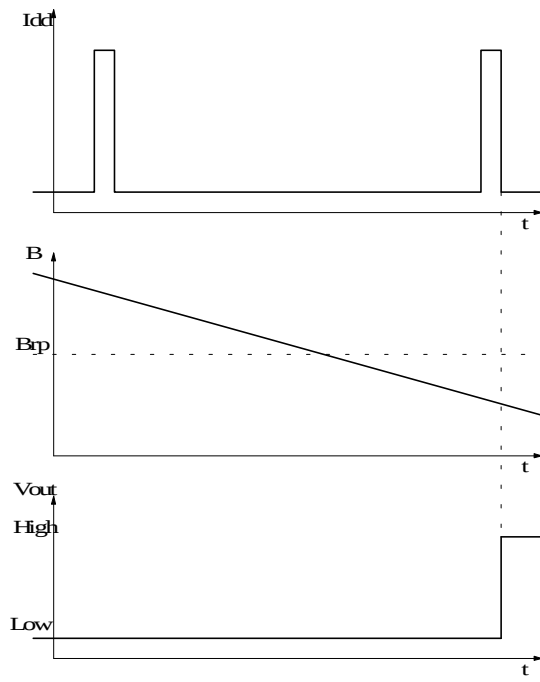
◆ PACKAGE (Dimensions in mm)



◆Function Timing Chart



Operate Point Timing



Release Point Timing