Ordering number: EN 2625A

Monolithic Digital IC

NO.2625A

LB1267M

2-Channel, High-Current, Low-Saturation Driver Array

Functions

- 2-channel magnet driver

Features

- High current (2.0A max) and low saturation voltage (1.5V)
- On-chip spark killer diodes

Absolute Maximum Ratings at Ta=25°C

				unit
Maximum Supply Voltage	V_{CC} max		8.0	V
Output Supply Voltage	V_{OUT}		10.0	V
Input Supply Voltage	V_{IN}		12.0	V
Output Current	I_{OUT1}	Solenoid drive stage(ch1)	1.0	A
	I_{OUT2}	Motor drive stage(ch2)	2.5	A
Spark Killer Diode Forward Current	I_{FSM1}	Solenoid drive stage(ch1)	1.0	A
	I_{FSM2}	Motor drive stage(ch2)	2.5	A
V_{CC} Instantaneous Flow-out Current	I_{ccp}		3.0	A
GND Flow-out Current	I_{GND}		3.0	A
Allowable Power Dissipaiton	Pd max		300	mW
Operating Temperature	Topr		-20 to +75	°C
Storage Temperature	Tstg		-40 to +125	°C

Allowable Operating Conditions at Ta=25°C

				unit
Supply Voltage	V_{CC}		3.0 to 7.0	V
Input "H"-Level Voltage	V_{IH}	I_{OUT}=300mA	3.0 to 11.0	V
Input "L"-Level Voltage	V_{IL}	$I_{OUT}\leqq$100μA	-0.3 to +0.7	V

Electrical Characteristics at Ta=25°C

			min	typ	max	unit
Output Voltage	V_{OH1}	V_{IN}=4.5V, V_{CC}=5.0V, I_{OUT}=500mA(ch1)			0.65	V
	V_{OH2}	V_{IN}=6.0V, V_{CC}=7.0V, I_{OUT}=1000mA(ch1)			1.4	V

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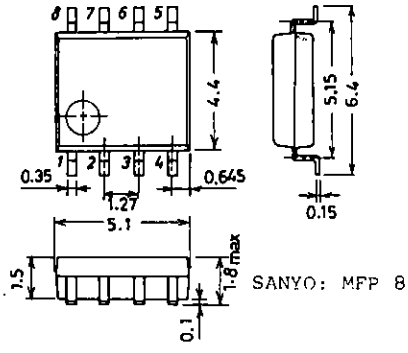
Package Dimensions 3032B-M8IC
(unit : mm)



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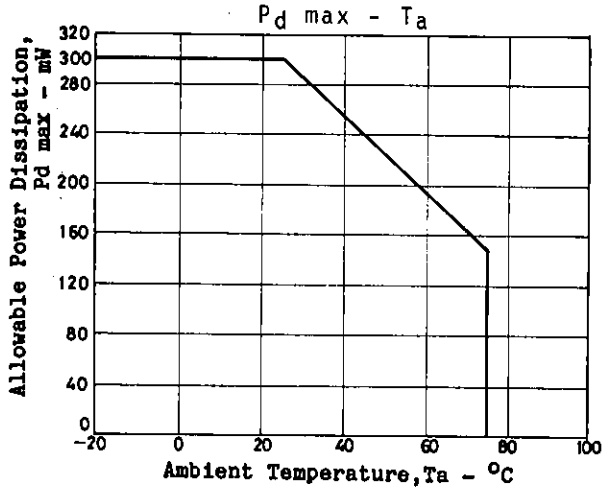
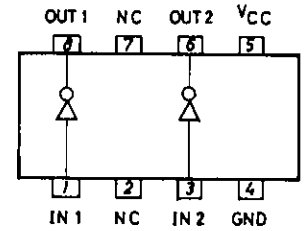
			min	typ	max	unit
Output Voltage	V_{OH3}	V_{IN}=3.0V,V_{CC}=3.0V, I_{OUT}=300mA(ch2)			0.25	V
	V_{OH4}	V_{IN}=4.5V,V_{CC}=5.0V, I_{OUT}=1000mA(ch2)		0.5	0.7	V
	V_{OH5}	V_{IN}=6.0V,V_{CC}=7.0V, I_{OUT}=2000mA(ch2)		1.0	1.5	V
Input Current	I_{IN1}	V_{IN}=6.0V(ch1)			1.0	mA
	I_{IN2}	V_{IN}=6.0V(ch2)			2.0	mA
Power Source + Output Leakage Current	I_{OFF}	V_{IN}=0.5V,V_{OUT}=V_{CC}=6.0V			30	μA
Spark Killer Diode Forward Voltage	V_{F1}	I_F=1000mA(ch1)			3.0	V
	V_{F2}	I_F=2000mA(ch2)			3.0	V
Output Sustain Voltage	$V_{o(sus)}$	I_{OUT}=400mA	10			V

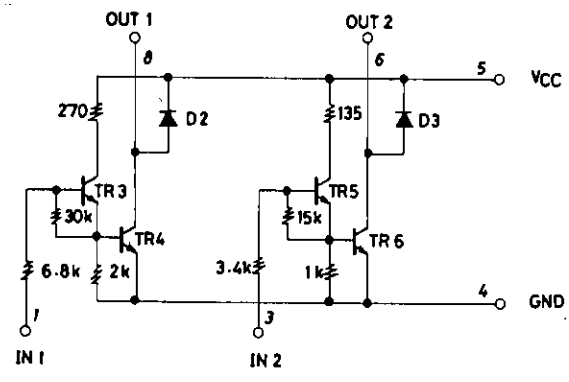


Pin Assignment



Note) Do not use NC pin.

Equivalent Circuit



Unit (resistance: Ω)