IZ33567B

ANALOG ALARM CLOCK WITH SNOOZE

FUNCTIONS

- Single 1.5V battery operation
- Low current consumption
- 32,768 Hz quartz crystal controlled oscillator with or without trimmable capacitor
- ALI and SNOOZE use different pins
- 1 Hz stepping motor driven with 15.625 mS, 23.4 mS, 31.25 mS or 46.875 mS (mask option) pulse width
- Alarm outputs control N-P-N driver transistor
- Alarm tone 4 step variable
- 256 second snooze interval
- SNOOZE is a low trigger

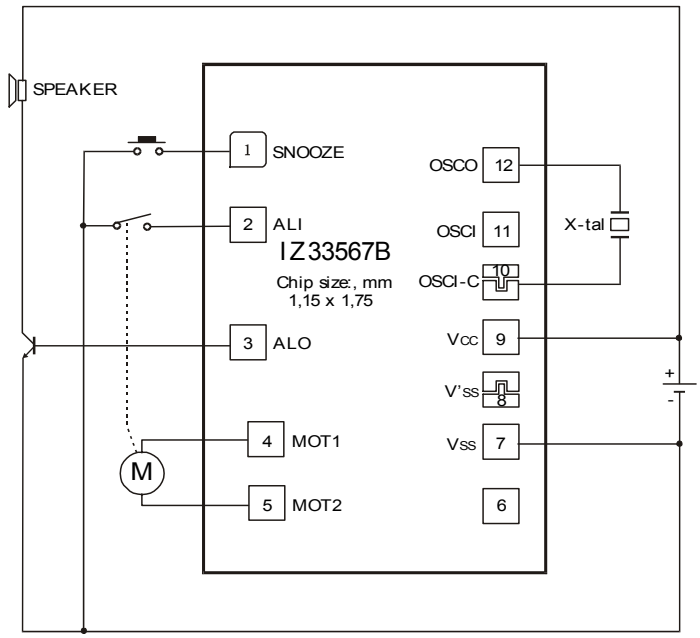
Type	Motor Driving Pulse Width, ΔT
IZ33567B	23.4 mS

ELECTRICAL CHARACTERISTICS

(V_{CC} =1.5V, V_{SS} = 0V, T_a = 25°C, F_{osc} = 32,768 Hz, unless otherwise specified)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Operating Voltage	V_{CC}		1.1	1.6	1.8	V
Operating Current	I_{CC}	No Load		1	2	mA
Saturation Resistance MOT1-MOT2	R_S	V_{CC} =1.2V, R_L = 200Ω		60	80	Ω
Alarm Output	I_{ALO}	V_{CC} = 1.2V, V_{OH} = 0.7V	100	250		mA
Alarm Frequency (Speaker)	F_{AS}			2048		Hz
Oscillator Stability	Δf/f	ΔV_{CC} = 0.1V		0.1	0.2	ppm
Built-in OSCO Capacitance	C_{OSCO}			24		pF
Built-in OSCI Capacitance	C_{OSCI}			0		pF
Built-in OSCI-C Capacitance	C_{OSCI-C}			24		pF
Oscillator Start Time	T_S	V_{CC} = 1.2V			2	S

TYPICAL APPLICATION



Note: The die area on the PCB should be connected to V_{SS}..

INTEGRAL