

F2F Decoder IC

Dual track, BS200EQ

Low power consumption, best for portable hand-held devices

Features

- Low power : Current 0.65mA/2.7V ; 1.0mA/5V best for portable, hand-held devices.
- 0.8um CMOS ASIC IC for F2F magnetic stripe card reader.
- Built-in operational amplification circuitry.
- Operational power DC3.0V \pm 10% /5.0V \pm 10% automatic gain control.
- Two modes for RCP width. One is 14 ~ 60us. The other one is 1/4 RDP width.
- Power down mode for stand-by control.
- Support for 75/210 BPI recording density.
- Speed range: 300 to more than 12600 BIT/sec.
- Small outline and surface mount design. QFN24 (4 x 4mm).



Application

- Magnetic stripe card reader.
- POS Keyboard
- Security Control.
- CAT (Card Authorization Terminal)

Specification

- Power Voltage: DC3.0V \pm 10% /5.0V \pm 10%
- Consumption: 0.65mA /DC 2.7V; 1.0mA /DC 5.0V

SYMBOL	PARAMETER	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
		OTHER	VDD				
VDD	Supply voltage			2.7		5.5	V
I _{dd}		VDD current	5V		0.8	1.0	mA
		VDD current	3V		0.6	0.75	mA
		VDD current	2.7V		0.5	0.65	mA
	Power down mode					15	uA

- Reading Speed Range /second: 10cm/sec ~ 150cm/sec
- MTBF: 100,000 hrs
- Environment : Temperature: Operating: -10°C ~ 55°C; Storage: -30°C ~ 70°C
Humidity: Operating: 10% ~ 90%; Storage: up to 100%
- Pin Assignment

No	Signal	No.	Signal	No.	Signal	No.	Signal	No.	Signal	No.	Signal
1	OPA2IN	5	NPWDN	9	RCPB	13	OSC	17	OPB2OUT	21	MSIB+
2	OPA2OUT	6	RDPA	10	CLS	14	RESEL	18	OPB2IN	22	MSIA+
3	GND	7	RCPA	11	ADJ	15	IBS	19	OPB1OUT	23	MSIA-
4	VREFIN	8	RDPB	12	NRCPM	16	VCC	20	MSIB-	24	OPA1OUT