

Digital output detector which incorporates a photodiode with signal processing circuit (amplifier, Scmitt Trigger, voltage regulator) has a wide Vcc range and compatible TTL and LSTTL.

Applications: Photointerrupters, Optical Switches, Bar Code Readers

Specifications & Ratings:

Parameter @ 25°C	Symbol	Conditions	Min.	Typ.	Max.	Absolute	Unit
Supply Voltage	Vcc					17	V
Low Level Output Current	IoL					30	mA
Power Dissipation	Pd					200	mW
Operating Temperature	Topr.					-25~+85	°C
Storage Temperature	Tstg					-40~+100	°C
Soldering Temperature	Tsol					260	°C
Operating Supply Volt Range	Vcc	IoL=16mA	4.5		17		V
Hi-Level Output Voltage	Vch	Ev=0V,RL=10KΩ	4.5				V
Low Level Output Voltage	VoL	Ev=100Lux			0.4		V
Low Level Supply Current	IccL	Ev=100Lux		3.0	6.0		mA
High Level Supply Current	Icch	Ev=0Lux		3.0	6.0		mA
L -> H Threshold Illuminance	EvLh	Vcc=5V	10	25			Lux
H -> L Threshold Illuminance	EvhL	Vcc=5V		30	80		Lux
Hysteresis (EvLh/Evhl)		RL=280Ω	0.5	0.8	0.95		
L -> H Propagation	TpLh	Ev=100Lux		3.0	9.0* 4.5**		μsec.
H -> L Propagation	TpL	Ev=100Lux		2.0	6.0* 4.0**		μsec.
Rise Time	Tr	Ev=100Lux		0.1	0.5		μsec.
Fall Yime	Tf	Ev=100Lux		0.05	0.5		μsec.
Peak Wavelengh	λp			900			nm

EIC-3200*

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