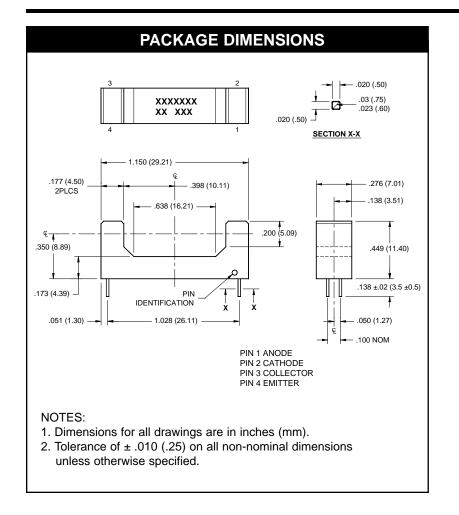
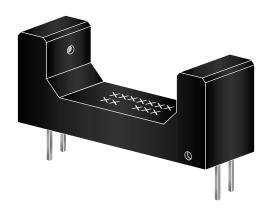
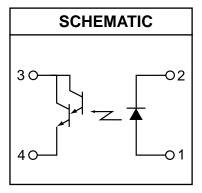


QVL25335







DESCRIPTION

The QVL25335 consists of an infrared light emitting diode coupled to an NPN silicon photodarlington packaged into an injection molded housing.

1 OF 3

FEATURES

- 20 mm wide gap
- PC Board mount
- .060" apertures
- · Sensor filter to attenuate visible light
- High CTR



SLOTTED OPTICAL SWITCH

QVL25335

Parameter	Parameter Symbol Rating		Unit
Operating Temperature	T _{OPR}	-40 to +85	°C
Storage Temperature	T _{STG}	-40 to +85	°C
Soldering Temperature (Iron)(2,3 and 4)	T _{SOL-I}	240 for 5 sec	°C
Soldering Temperature (Flow)(2 and 3)	T _{SOL-F}	260 for 10 sec	°C
INPUT (EMITTER) Continuous Forward Current	lF	50	mA
Reverse Voltage	V _R	6	V
Power Dissipation (1)	P _D	100	mW
OUTPUT (SENSOR) Collector to Emitter Voltage	V _{CEO}	30	V
Emitter to Collector Voltage	V _{ECO}	6	V
Collector Current	I _C	40	mA
Power Dissipation (1)	P _D	150	mW

NOTES:

- 1. Derate power dissipation linearly 1.67 mW/°C above 25°C.
- 2. RMA flux is recommended.
- 3. Methanol or isopropanol alcohols are recommended as cleaning agents.
- 4. Soldering iron tip 1/16" (1.6 mm) minimum from housing.

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)								
PARAMETER	TEST CONDITIONS	SYMBOL	MIN	TYP	MAX	UNITS		
INPUT (EMITTER) Forward Voltage	I _F = 20 mA	VF	_	_	1.7	V		
Reverse Leakage Current	V _R = 5 V	I _R	_	_	100	μA		
OUTPUT (SENSOR) Emitter to Collector Breakdown	I _E = 100 μA	BV _{ECO}	6	_	_	V		
Collector to Emitter Breakdown	$I_C = 1 \text{ mA}$	BV _{CEO}	30	_	_	V		
Collector to Emitter Leakage	V _{CE} = 10 V	I _{CEO}	_	_	100	nA		
COUPLED On-State Collector Current	I _F = 10 mA, V _{CE} = 5 V	Ic(on)	5.0	_	_	mA		
Saturation Voltage	$I_F = 10 \text{ mA}, I_C = 2 \text{ mA}$	VCE(SAT)	_	_	1.0	V		



SLOTTED OPTICAL SWITCH

QVL25335

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