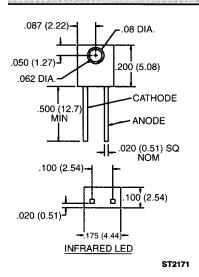
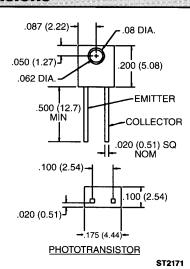


PLASTIC SIDELOOKER PAIR

QPE1113

PACKAGE DIMENSIONS





NOTES:

- 1. DIMENSIONS ARE IN INCHES (mm).
 2. TOLERANCE IS ± .010 (.25)
 UNLESS OTHERWISE SPECIFIED.

DESCRIPTION

The QPE1113 consists of a 940nm GaAs LED and a silicon phototransistor mounted in plastic sidelooker packages.

FEATURE

- Steel lead frames for improved reliability in solder mounting.
- Excellent optical-to-mechanical alignment.
- Wide emission/reception angle.
- Black plastic body allows easy recognition of sensor and filters ambient visible light.



PLASTIC SIDELOOKER PAIR

ABSOLUTE MAXIMUM RATINGS (TA = 25°C Unite	ss Otherwise Specified)
Storage Temperature Operating Temperature Soldering: Lead Temperature (Iron) Lead Temperature (Flow)	-40°C to + 100°C -40°C to + 100°C 240°C for 5 sec. (2.3.5)
INPUT DIODE Continuous Forward Current Reverse Voltage Power Dissipation	
OUTPUT TRANSISTOR Collector-Emitter Voltage Emitter-Collector Voltage Power Dissipation	

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
INPUT DIODE						
Forward Voltage	$V_{\scriptscriptstyle F}$	_		1.50	٧	$l_F = 20 \text{ mA}$
Reverse Leakage Current	I _R	_		100	μΑ	V _R =5.0 V
OUTPUT TRANSISTOR						
Collector-Emitter Breakdown	BV_CEO	30		_	٧	$I_c = 1.0 \text{ mA}, Ee = 0$
Collector-Emitter Leakage	I _{CEO}			100	nA	$V_{CE} = 10.0 \text{ V, Ee} = 0$
COUPLED						
On-State Collector Current						
QPE1113	I _{C(ON)}	0.30		_	mA	$I_F = 20$ mA, $V_{CC} = 5.0$ V, $D = .155$

NOTES

- Derate power dissipation linearly 133 mW/°C above 25°C.
 RMA flux is recommended.
 Soldering iron tip ¼6" (1.6mm) minimum from case.
 D is the distance from lens tip to lens tip.
 As long as leads are not under any stress or spring tension.



PLASTIC SIDELOOKER PAIR

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