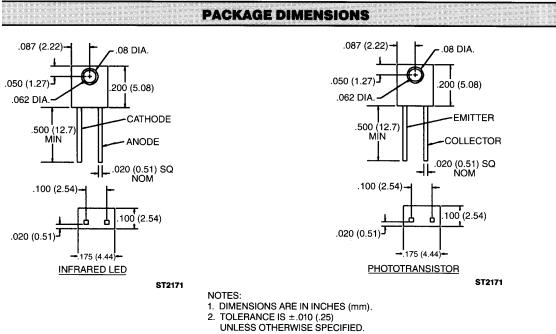


PLASTIC SIDELOOKER PAIR

QPE1113





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



- 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.



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ABSOLUTE MAXIMUM RATINGS (TA = 2	5°C Unless Otherwise Specified)
Storage Temperature	-40°C to + 100°C -40°C to + 100°C
Lead Temperature (Iron) Lead Temperature (Flow)	
INPUT DIODE	60 m
Reverse Voltage	
OUTPUT TRANSISTOR	
Emitter-Collector Voltage	

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
INPUT DIODE						
Forward Voltage	VF	_		1.50	V	l _F =20 mA
Reverse Leakage Current	l _R	_		100	μA	V ₈ =5.0 V
OUTPUT TRANSISTOR						
Collector-Emitter Breakdown	BV_{CEO}	30			V	$I_{c} = 1.0 \text{ mA}, \text{ Ee} = 0$
Collector-Emitter Leakage	I _{CEO}			100	nA	V_{ce} = 10.0 V, Ee = 0
COUPLED						
On-State Collector Current						
QPE1113		0.30		_	mA	$I_{\rm F} = 20 {\rm mA}, V_{\rm GC} = 5.0 {\rm V}, {\rm D} = .155^{\circ}$

NOTES

Derate power dissipation linearly 133 mW/°C above 25°C.
RMA flux is recommended.
Soldering iron tip ¼s" (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.



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