

SILICON PHOTODIODE VTP8840STRH

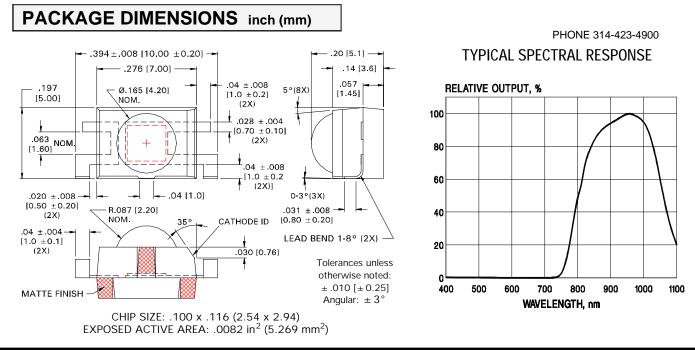
FEATURES

PRODUCT DESCRIPTION

- Surface mount package
- Low capacitance
- Fast response
- High shunt impedance
- Tape & reel supplied

ELECTRO-OPTICAL CHARACTERISTICS @ 25° C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS
SHORT CIRCUIT CURRENT @ 100 fc, 2850 K	Isc	50	60		μA
DARK CURRENT @ V _R = 10 V	ID			20	nA
SHUNT RESISTANCE @ H = 0, V = 10 mV	Rsн		0.25		GΩ
JUNCTION CAPACITANCE @ $V_R = 3 V$	CJ			50	pF
OPEN CIRCUIT VOLTAGE @ 100 fc, 2850 K	Voc	325			mV
ANGULAR RESPONSE (50% RESPONSE POINT)	θ1/2		±42		Degrees



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V I P8840S I RDS Rev.

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GENERAL CHARACTERISTICS

GENERAL CHARACTERISTICS							
PARAMETER	SYMBOL	TYPICAL RATING	UNITS				
PEAK SPECTRAL RESPONSE @ 25°C	λρ	925	nm				
RADIOMETRIC SENSITIVITY @ PEAK, 25°C	SRPK	0.6	A / W				
NOISE EQUIVALENT POWER	NEP	2.0 x 10 ⁻¹³	W/ \sqrt{Hz}				
SPECIFIC DETECTIVITY	D*	1.2 x 10 ¹²	cm $\sqrt{\text{Hz}}$ /W				
TEMPERATURE COEFFICIENT SHORT CIRCUIT CURRENT @ 2850 K SOURCE OPEN CIRCUIT VOLTAGE @ 2850 K SOURCE DARK CURRENT	TC Isc TC Voc TC I _D	+0.22 - 2.0 +15.0	%/°C mV/ C %/°C				

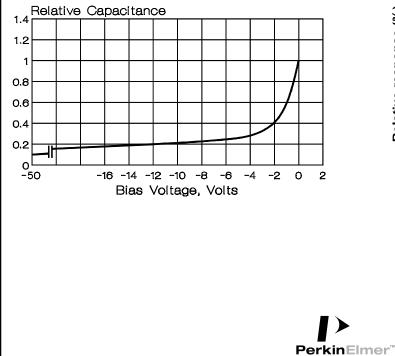
ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATING	UNITS
TEMPERATURE RANGE OPERATING AND STORAGE	Т _{АМВ}	– 40 to +85	°C
LEAD SOLDER TEMPERATURE (1.6 mm FROM CASE, 5 SECONDS MAX.)	T _{LS}	260°	°C
BREAKDOWN VOLTAGE @ 25°C	V _{BR}	33	Volts
POWER DISSIPATION	PD	150	mW

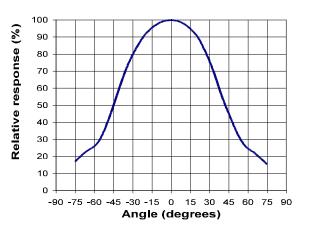
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TYPICAL CHARACTERISTIC CURVES





ANGULAR RESPONSE



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