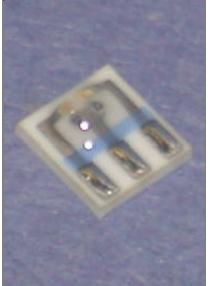
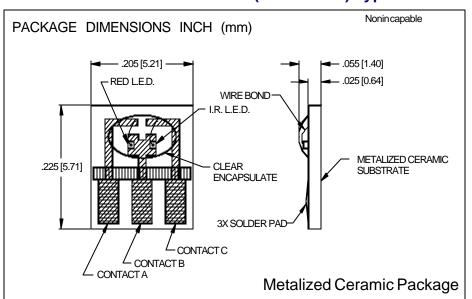
PHOTONIC <u>DETECTORS INC</u>.



Three Drive Emitter, Oximeter Component (660/905 nm) Type PDI-E834



FEATURES

- Low cost
- 660 nm ⁺/- 3 nm
- 3 drive line

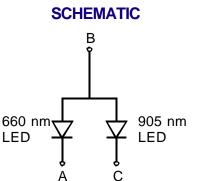
DESCRIPTION: The **PDI-E834** is a three drive line dual emitter oximeter component. The 660 and 905 nm GaAlAs emitters are high power LPE grown. The metalized ceramic has clear epoxy encapsulation with top side solder pads. These components are ideal for O.E.M. and repair replacements of oximeter probe assemblies.

APPLICATIONS

- Oximeter probes
- Finger clamps
- Reusable probes

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

SYMBOL	PARAMETER	MIN	MAX	UNITS					
Pd	Power Dissipation I _F =20 mA		250	mW					
I _P	Continuous Forward Current		30	mA					
FP	Peak Forward Current		200	mA					
Vr	Reverse Voltage		4	V					
T₀&T₅	Storage & Operating Temp	-40	+80	°C					
TS	Soldering Temperature*		240	°C					
* For 2 seconds may using a boot sink									



*For3secondsmaxusingaheatsink.

ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	660 nm		905 nm				
			MIN	TYP	MAX	MIN	TYP	MAX	UNITS
Po	Radiant Flux**	l _F = 20 mA	1.8	2.4		1.2	1.8		mW
Ιv	Luminous Intensity**	l _F = 20 mA	20	30					mcd
Vf	Forward Voltage	l _F = 20 mA		1.8	2.4		1.2	1.5	V
V _R	Reverse breakdown	I _F = 10 μμA	5			5			V
λp	Peak Wavelength	l _F = 20 mA	658	661	664	895	905	915	nm
Δλ	Spectral Bandwidth	l _F = 20 mA		25			50		nm
T _r	Rise Time	l _F = 20 mA		0.8			0.8		μS
Tr	FallTime	l _F = 20 mA		0.8			0.8		μS

 $\label{eq:action} ** \, \text{Bare chip} \, \text{measured} \, \text{packaged} \, \text{in} \, \text{a} \, \text{flat} \, \text{TO-18} / \, \text{TO-46} \, \text{header} \, \text{without} \, \text{resin} \, \text{coating} \, \text{or} \, \text{cap}.$

Information in this technical data sheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice. [FORM NO. 100-PDI-E834 REV A]