

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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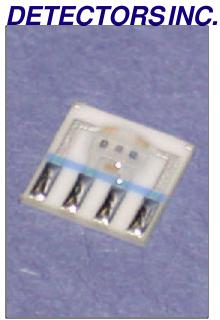


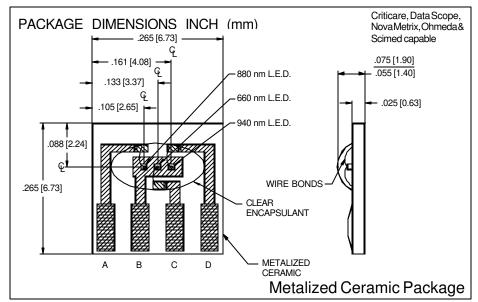




**PHOTONIC** DETECTORSINC.

## Four Drive Emitter, Oximeter Component (880/660/940 nm) Type PDI-E839





## **FEATURES**

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

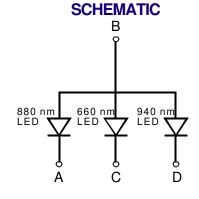
**DESCRIPTION:** The **PDI-E839** is a four drive line three emitter oximeter component. The 880, 660 GaAlAs and 940 nm GaAs emitters are high power LPE grown. The metalized ceramic has clear epoxy encapsulation with top side solder pads. These components are ideal for O.E.M. and repair replacements 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 <sub>F</sub> =20 mA		250	mW
I <sub>PP</sub>	Continuous Forward Current		30	mA
<b>I</b> FP	Peak Forward Current		200	mA
VR	Reverse Voltage		4	V
T <sub>o</sub> &T <sub>s</sub>	Storage & Operating Temp	-40	+80	۰C
TS	Soldering Temperature*		240	°C



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

SYMBOL	CHARACTERISTIC	TEST	880 nm		660 nm		940 nm					
		COND	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	UNITS
Po	Radiant Flux**	$I_F = 20 \text{ mA}$	1.8	2.0		1.8	2.4		1.2	1.8		mW
Ιv	Luminous Intensity**	$I_F = 20 \text{ mA}$				20	30					mcd
VF	Forward Voltage	I <sub>F</sub> = 20 mA		1.5	1.7		1.8	2.4		1.3	1.5	V
$V_{_{\mathrm{R}}}$	Reverse breakdown	I <sub>F</sub> = 10 µuA	5			5			5			V
λp	Peak Wavelength	$I_F = 20 \text{ mA}$	870	880	890	658	661	664	930	904	950	nm
$\triangle \lambda$	Spectral Bandwidth	$I_F = 20 \text{ mA}$		50			25			50		nm
T <sub>r</sub>	Rise Time	I <sub>F</sub> = 20 mA		0.8			8.0			8.0		μS
Tr	Fall Time	I <sub>c</sub> = 20 mA		0.8			0.8			0.8		μS

<sup>\*\*</sup>Bare chip measured packaged in a flat TO-18/TO-46 header without resin coating.

<sup>\*</sup>For3 seconds max using a heat sink.