

FEATURES

- Low Cost
- 660 nm +/- 3nm
- 2 drive line

DESCRIPTION

The **PDI-E838** is a two drive line dual emitter oximeter component. The 660 and 880 nm GaAlAs infrared emitters are mounted in a glob topped low cost ceramic SMT package. The LEDs are bias separately by alternating polarity on the bias pins.

APPLICATIONS

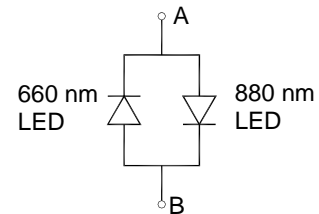
- Oximeter Probes
- Finger Clamps
- Reusable probes

ABSOLUTE MAXIMUM RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
P _d	Power Dissipation		250	mW
I _f	Continuous Forward Current		30	mA
I _p	Peak Forward Current		200	mA
V _r	Reverse Voltage		4	V
T _{STG}	Storage Temperature	-40	+80	°C
T _O	Operating Temperature	-40	+80	°C
T _s	Soldering Temperature*		+240	°C

* 1/16 inch from case for 3 seconds max.

SCHEMATIC



ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	660 nm			880 nm			UNITS
			MIN	TYP	MAX	MIN	TYP	MAX	
P _o	Radiant Flux	I _f = 20 mA	1.8	2.4		1.2	1.8		mW
I _v	Luminous Intensity	I _f = 20 mA	20	30					mcd
V _f	Forward Voltage	I _f = 20 mA		1.8	2.4		1.2	1.7	V
V _r	Reverse Breakdown Voltage	I _f = 10 μA	5			5			V
λ _p	Peak Wavelength	I _f = 20 mA	658	661	664	870	880	890	nm
Δλ	Spectral Halfwidth	I _f = 20 mA		21			50		nm
t _r	Rise Time	I _f = 20 mA		0.1			0.8		uS
t _f	Fall Time	I _f = 20 mA		0.04			0.8		uS

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.