

FEATURES

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

DESCRIPTION

The **PDI-E837** is a three drive line dual emitter oximeter component. The 660 and 880nm GaAlAs infrared emitters are mounted in a glob topped low cost ceramic SMT package. The LEDs have a common anode.

APPLICATIONS

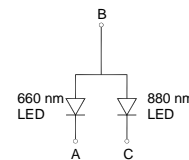
- Oximeter Probes
- Finger Clamps
- Reusable probes

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		1.8	2.0		mW
I_v	Luminous Intensity	$I_f = 20$ mA	20	57					mcd
V_f	Forward Voltage	$I_f = 20$ mA		1.8	2.4		1.3	1.7	V
V_r	Reverse Breakdown Voltage	$I_f = 10$ μ A	5			5			V
λ_p	Peak Wavelength	$I_f = 20$ mA	658	661	664	870	880	890	nm
$\Delta\lambda$	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.