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ELD-880-525 TECHNICAL DATA

PRELIMINARY

INFRARED GaAlAs LED

Technology: GaAlAs structure

Peak Wavelength: 880 nm typ.

Package: 5 mm bluish clear plastic



Absolute Maximum Ratings (Tc=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	5	V
Reverse Current	I_R	10	μA
Soldering Temperature	T_S	260	°C for 5 s
Operating Temperature	T_{OP}	-20 .. +100	°C
Storage Temperature	T_{STG}	-40 .. +85	°C

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Optical Output Power	P_O	$I_F = 100 \text{ mA}$	30	32	34	mW
Forward Voltage	V_F	$I_F = 20 \text{ mA}$		1.5	2.0	V
Forward Current	I_F	cw		20	100	mA
Peak Forward Current	I_P	dutycycle 50% @ $t_p \leq 50 \mu s$		200		mA
Power Dissipation	P_D	25 °C, free air		130		mW
Switching time on	t_r			20		ns
Switchung time off	t_f			30		ns
Peak Wavelength	λ_P	$I_F = 100 \text{ mA}$		880		nm
Spectrum Half Width	$\Delta\lambda_{1/2}$	$I_F = 100 \text{ mA}$		25		nm
Viewing Angle	$2\theta_{1/2}$	$I_F = 100 \text{ mA}$		20		°