



J-DEC Laser Technology

JDEC-980-75-5KPD-56

PULSED LASER DIODE

NEW

Technical Data

Features

- * MOCVD Pulsed Laser Diode
- * Wavelength : 980 nm (Typ.)
- * Peak Power : 5W
- * Threshold Current : 150 mA (Typ.)
- * Package Style : TO-18 (5.6 mmØ)
- * Casing: Negative - Cathode

TEMPERATURE CHARACTERISTICS

DESCRIPTION	SYMBOL	RATED VALUE
Operation Temperature (°C)	T _{op}	-30 to +70
Storage Temperature (°C)	T _{stg}	-60 to +85

OPTICAL AND ELECTRICAL CHARACTERISTICS (T_c=25 °C); Test condition: 50ns, 1kHz

DESCRIPTION	SYMBOL	MIN.	TYPICAL	MAX.
Lasing Wavelength (nm)	λ_p	965	980	995
Emitting Area	A _e	-	75 x 1µm	-
Peak Power (W)	P _o	5	6	7
Threshold Current (mA)	I _{th}	80	150	200
Peak Current (A)	I _{op}	-	-	5
Peak Voltage (V)	V _{op}	-	-	6
Beam Divergence (°)	$\theta_{ }$	8	10	11
Beam Divergence ⊥ (°)	θ_{\perp}	30	40	50
Duty Factor (%)	DF	***	0.1	***

