

Parameter	Symbol	5433_-J1 Series			Unit
		n.	Typ.	Max.	
Laser Characteristics					
CW output power, kink-free ²	P _O	–	–	300	mW
Center wavelength	λ _c	–	(note ⁵)	–	
Spectral width ¹	Δ λ	–	3	5	nm
Slope efficiency	ηD = P _O /(I _{op} –I _{th})	0.75	0.95	–	mW/mA
Conversion efficiency	η = P _O /(I _{op} V _{op})	–	30	–	%
Emitting dimensions	W x H	–	3 x 1	–	μm
FWHM beam divergence					
Parallel to junction	θ _{//}	–	9	–	degrees
Perpendicular to junction	θ _⊥	–	30	–	degrees
Threshold current	I _{th}	–	45	55	m A
Operating current	I _{op}	–	400	450	mA
Operating voltage	V _{op}	–	(note ⁴)	–	⁴
Series resistance	R _s	–	4.5	6.5	Ω
Thermal resistance	R _{th}	–	60	–	°C/W
Recommended case temperature	T _c	-20	–	30	°C
Absolute Maximum Ratings					
Reverse voltage	V _{rl}	–	–	3	V
Case operating temperature	T _{op}	-20	–	50	°C
Storage temperature range	T _{stg}	-40	–	80	°C
Lead soldering temperature	T _{is}	–	–	250	°C (5 sec.)
Monitor Photodiode					
Sensitivity	–	0.1	–	20	μA/mW
Capacitance	–	–	6	–	pF
Breakdown voltage	V _{bd}	–	25	–	V
Operating voltage	V _{op}	–	10	–	V

Dimensions Diagrams

(Specifications in inches [mm] unless otherwise noted.)

Standard Tolerances

inches: x.xx = ±0.02
x.xxx = ±0.010

mm: x.x = ±0.5
x.xx = ±0.25

Package Style:TO-56 Window (J1)

Pinout	
Pin	Description
1	Laser cathode (-)
2	Laser anode, MPD cathode and case ground
3	Monitor photodiode anode (+)

