

1512nm DFB TO-CAN datasheet

P/N : WD51-00A

Description

The component is assembled from a 1512.2nm direct-modulated laser chip, a TEC, a thermistor, a 8pin TO 60 base etc., which can be used for Ammonia sensing. applications.



Features

RoHS compliant
High reliability

Applications

NH₃ Monitoring

Electrical/Optical Characteristics (T_c = 25°C unless stated otherwise)

Parameter	Symbol	Value			Units	Note
		Min	Typ.	Max		
Threshold Current	I _{th}	-	-	18	mA	CW, TLD = 35°C
Forward Voltage	V _f	-	1.2	1.6	V	CW, TLD = 35°C, I _{op} = 50mA
Output Power	P _{op}	4	-	-	mW	CW, TLD = 35°C, I _{op} = 50mA
Side-mode Suppression Ratio	SMSR	35	-	-	dB	CW, TLD = 35°C, I _{op} = 50mA
Central Wavelength	λ _c	1508	1511	1514	nm	TLD = 35°C, I _{op} = 50mA
Wavelength/Temperature Coefficient	Δλ/ΔT	-	0.1	0.12	nm/°C	CW, TLD = 35°C, I _{op} = 50mA
Wavelength/Current Coefficient	Δλ/ΔI	-	0.02	-	nm/mA	CW, TLD = 35°C, I _{op} = 50mA
Series Resistance	R _s	-	-	15	Ω	CW, TLD = 35°C, I _{op} = 50mA
Thermistor resistance	R _{th}	9.9	10	10.1	kΩ	
B constant of R _{th}	B	3890	3930	3969	K	
TEC current	I _{tec}	-	-	1	A	CW, T _c = -5~75°C, TLD = 35°C
TEC voltage	V _{tec}	-	-	1.5	V	CW, T _c = -5~75°C, TLD = 35°C
TEC power	P _{tec}	-	-	1.5	W	CW, T _c = -5~75°C, TLD = 35°C

