

## 980nm High-power Laser Diode

### Speciality

≥50mw CW optical power  
High conversion efficiency  
Standard TO-18 package

### APPLICATION

Laser defense  
Medicine  
Infrared sources for night viewing  
Information recognition etc



### Specifications (25°C)

Model	Symbol	Unit	AL980T50
Wavelength	$\lambda_p$	$\mu m$	$980 \pm 10$
CW Output Power	$P_{OP}$	mW	≥50
Threshold Current	$I_{TH}$	mA	≤40
Operation Current	$I_{OP}$	mA	≤150
Operation Voltage	$V_{OP}$	V	≤2.2
Differential Efficiency	$\eta$	mW/mA	≥0.8
Beam Divergence	B	$\theta_{\perp} \times \theta_{//}$	40×12
Series Resistance	$R_S$	$\Omega$	≤3
Package Style			TO-18

#### Note:

- 1.ESD precautions must be taken when handling this product.
- 2.Laser radiation avoid direct exposure to beam.
- 3.Specifications subject to change, should be noted AOE corp. new report.