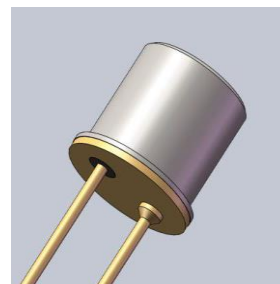


905nm 300W Pulsed Laser Diodes

Model: OPT905TO300-G

Features

- Hermetic Package
- Peak Power up to 300W
- RoHS



Applications

- Range finding
- Surveying equipment
- Weapons simulation
- Laser radar
- Ceilometer
- Optical trigger
- Medical

Optical Characteristics at $t_{RT} = 25\text{ }^{\circ}\text{C}$

	Min.	Typ.	Max.	Units
Wavelength of peak radiant intensity λ_m	895	905	915	nm
Spectral bandwidth $\Delta\lambda$ at 50% intensity points		7		nm
Wavelength temperature coefficient		0.3		nm/ $^{\circ}\text{C}$
Beam spread (50% peak intensity)				
Parallel to junction plane //		10		Degrees
Perpendicular to junction plane \perp		25		Degrees

Optical Characteristics at $t_{RT} = 25\text{ }^{\circ}\text{C}$, $t_w = 100\text{ ns}$, $D = 0.1\%$, $I_F = 40\text{ A}$

Parameter		Units
Number of elements	3×3	
Peak output power (typ.)	350	W
Emitting area	220×260	μm
Threshold, I_{th} typ.	600	mA
Forward voltage at I_F	30	V

Absolute Maximum Ratings

Maximum ratings	Limiting values
Max. current	40A
Peak reverse voltage	30V
Pulse duration	100ns
Duty factor	0.1%
Temperature	
- Storage	-40°C to +100°C
- Operating	-40°C to +85°C
Lead soldering	
- 1.0 seconds max at	260°C

Package Drawings

