ARROW Reference Board for Evaluation

More information

If you would like to add LiDAR functionality to the equipment you are designing, please contact us here.

February 2021 release

Contact Us

ARROW and ROHM collaborate to launch for LiDAR solution

- Advanced LiDAR design with ROHM LD + Digital/ANALOG Core Chip technology
- High performance with narrow pulse width of 3nsec
- Speed up for LiDAR system design with Software support to fix LD system

905nm, 75W, 225µm Invisible Pulsed Laser Diode RLD90QZW3

Characteristics (Tc=25℃)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Peak output power	Po	If=27A	TBD	75	–	W
Peak pulse wavelength	λ	If=27A	895	905	915	nm
Operating voltage	Vf	If=27A	–	14	20	V
Beam divergence parallel	θ//	If=27A	4	10	16	deg.
Beam divergence perpendicular	θ⊥	If=27A	18	25	32	deg.
Beam tolerance	⊿θ//	If=27A	-4	0	+4	deg.
	⊿θ⊥		-4	0	+4	deg.
Emission point accuracy	⊿XYZ	–	-150	0	+150	µm
Threshold current	Ith	–	–	0.9	1.5	A
Apeture size	–	Designed Value	–	225×10	–	µm×µm

Caution: θ⊥ and θ// are defined as full width at half maximum.

Operating condition: tw = 50ns, DR = 0.05%

Operation temperature is regulated by case temperature; Tc

Rohm Related Part introduction

- ✓ Power source / Power management IC
- ✓ Protection device and Interface
- ✓ Discrete device

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