1. Product Overview

The product with small volume and high emission power adopts metal packaging and Multi Epitaxial light-emitting layer stacking structure.

2. Product Features

The pulsed laser power is 25W, the emission wavelength is 905nm, and the luminous aperture is $75\mu m \times 10\mu m$.

3. Application Scene

The products are mainly used in laser ranging telescope, automobile anti-collision system, infrared lighting system, lidar, monitoring, warning and other fields.

4. Limiting Operating Parameters

Parameters	Symbol	Limit Value			
		Minimum	Maximum	Unit	
Peak power	P _{peak}	-	35	W	
Forward current	I _F	-	13	А	
Pulse width	t _p		200	ns	
Duty cycle	d.c.	-	0.1	%	
Reverse voltage	V _R	<u> </u>	3	V	
Operating temperature	T _{OP}	-40	+85	$^{\circ}\! \mathbb{C}$	
Storage temperature	T _{stg}	-40	+100	$^{\circ}\!\mathbb{C}$	
Welding temperature	Alba 3				
(10s, the lead out end	-	-	260	${\mathbb C}$	
of the pin shall be at	Ts				
least 2mm)					

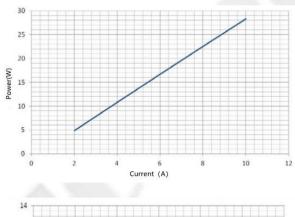
5. Typical Operating Parameters(25℃)

Working conditions: pulse width is 200ns, repetition frequency is 5KHz, and peak current is 10A.

		Limit Value			
Parameters	Symbol	Minimum	Typical value	Maximum	Unit
Emission wavelength	λpeak	895	905	915	nm
Spectral width	Δλ	-	7	-	nm
Peak power	power P _{peak}		25	-	W
Threshold current	Ith	0.4	0.50	0.7	Α
Luminous area	Wh	-	75μm×10μm	_	
Divergence angle	θ//×θ⊥	-	11×27	4	o
Wavelength temperature coefficient	ðλ/ ð T	-	0.28	-	nm/℃

6. Main Characteristic Curve

Fig. 1 Power - Current and Voltage - Current Relationship



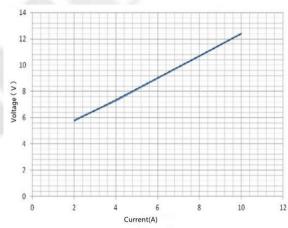


Fig. 5 Near Field Spot



Fig. 6 Outline Drawing and Pin Definition

