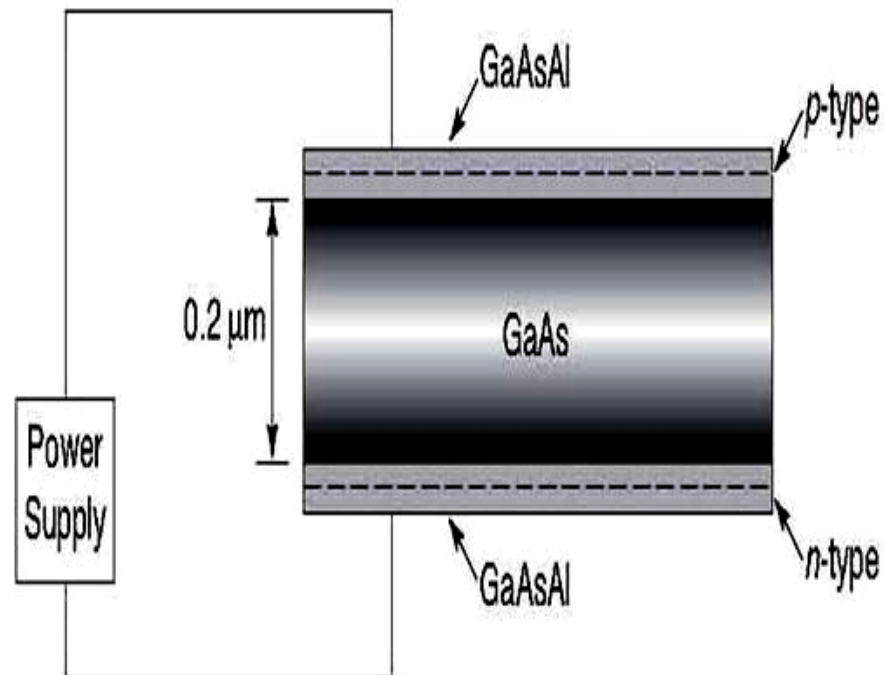


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Semiconductor Laser



Advantages and disadvantages of ruby laser, he-ne laser and semiconductor laser

The merits and demerits of solid laser (Ruby), gas laser (He Ne) and semiconductor laser are:

	Ruby laser	He-Ne laser	Semiconductor laser
Advantages			
1	Easy to construct and operate	Easy to construct and operate	Easy in operation
2	Very strong and intense beam upto a power of 10 kW	Continuous beam	Long life, highly monochromatic, tunable and continuous beam
3	Beam diameter as large as 25 mm	Exceptionally monochromatic beam with high operation duration (10,000 hrs.)	Excellent efficiency with very high operation duration (20,000 hrs.)
Disadvantage			
	Its laser beam is only pulse like and its operation duration is very less (few hrs.)	It has get very low power about 0.5 – 5mW	It has got low power about 200 mW