Shin-Etsu Handotai Compound Semiconductor Materials & LED

Shin-Etsu Handotai supplies epitaxial wafers for LED and LED chips

Structure of AlGaInP MO products

Preparing several type of LED Chips meeting your request.

Structure · Type			Material of Sub	Electrode placement	Wiring	Characteristics
Epitaxial GaAs Sub	Absorbing Substrate	AS-Type	GaAs	P-up Anode is the upper part		For the uses that high brightness is not necessary
Epitaxial GaP	Transparent Substrate	TS•TM-Type	GaP	P-up Anode is the upper part	One Wire	Wide light distribution properties Good performance against Electrostatic Discharge
		ATS-Type				
Epitazial Si Sub	Metal Bonding	MR-Type Metal Reflector	Si	P-UP Anode is the upper part		
		BR-Type Bonding Reflector		N-UP Cathode is the upper part		High directivity LED

Light Distribution Comparison

Angleθ[°] TS Type -30° -60° -90° 30° 60° 90° 80 Relative 100 intensity [%] Sample of typical data graph

Electrode placement of Three Types

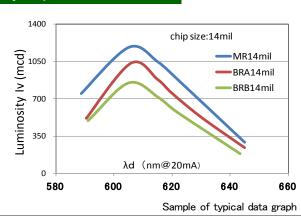




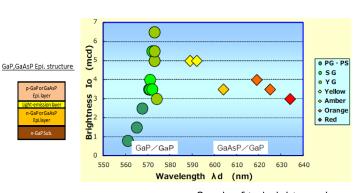
MR series (P-up)

*High Brightness or High power

Luminosity Comparison between BR and MR



Wavelength and Brightness of GaP products



Sample of typical data graph

