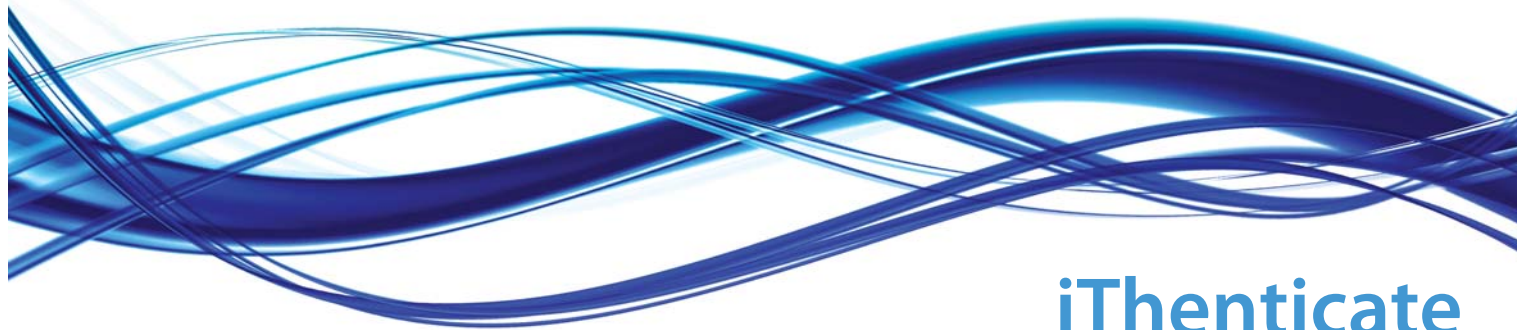


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Match #	Match Description	Match Percentage
1	21% match (CrossCheck) Hao Wang, "Active Packaging Method for Light-Emitting Diode Lamps With Photosensitive Epoxy Resins", IEEE Photonics Technology Letters, 1/2008	21%
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wanghao@sctu.edu.cn 13 Abstract: A novel light-emitting diode (LED) packaging method, named the active packaging (AP) method, is presented in this paper. In this method, during the LED packaging process, the light emitted from a GaN LED chip itself is employed to package the LED encapsulant, thereby eliminating the need to utilize a mold. Current injection into a bare LED chip, triggers a photosensitive epoxy to polymerize, leading to the formation of mushroom lamp cap on the LED chip. The emission properties of LEDs fabricated by this method, including their emission beam profiles and light outputs, were characterized. The results showed that a self-focusing effect happened with the addition of an epoxy on the chip. The simulation demonstrated that the geometry the encapsulant controlled the beam pattern of emission. Further, the self-focusing effect was believed to be caused by the combination of the threshold energy of epoxy polymerization, the beam pattern and the power output of the LED chip.

C2008 Optical Society of America OCIS codes: (250.0250) Optoelectronics; (220.4610) Optical fabrication. References and links

Customer Support & Integration

Web-based training and email/phone helpdesk. API integration for content management systems and manuscript tracking systems.