

LFPAK56-SINGLE

LFPAK56-SINGLE follows the JEDEC standard (MO-235) for medium-power discrete products.

Applications

LFPAK56-SINGLE is suitable for medium-power applications (over 100A available), designed for low on-resistance and high-speed switching MOSFETs.

- ▶ Motor drivers
- ▶ Power supply circuits
- ▶ DC-DC converters
- ▶ Key applications for automotive in body, safety and lighting

Reliability Qualification

Amkor packages are assembled with proven reliable semiconductor materials. All reliability testing includes:

- ▶ JEDEC standard pre-conditioning except for high temperature storage
- ▶ 85°C/85% RH, 168 hours, IR reflow 260°C 3X
- ▶ H³TRB: 85°C/85% RH, 1000 hours
- ▶ uHAST: 130°C/85% RH, 96 hours
- ▶ Temperature cycle: -55°C to 150°C, 1000 cycles
- ▶ High temp storage: 150°C, 1000 hours

Test Services

Amkor offers full turnkey business for all power discrete products with the capability to test various types of power devices including MOSFETs, intelligent power devices, etc.

- ▶ Power discrete test capability
 - ▷ DC
 - ▷ Capacitance *1
 - ▷ R_g *1
 - ▷ Avalanche test
 - ▷ Thermal resistance
- ▶ Program conversion
- ▶ Electrical failure analysis
- ▶ Integrated test, marking, vision inspection and tape & reel services

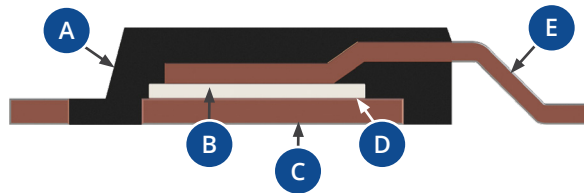
*1 Sampling test only

LFP-AK56-SINGLE

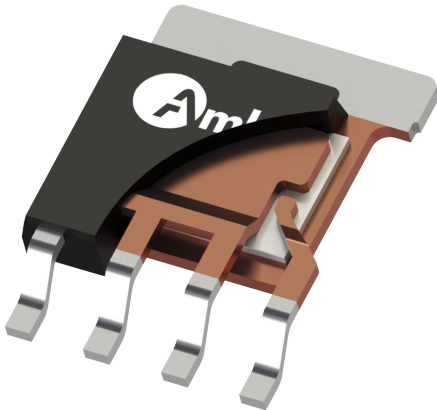
Standard Materials

- ▶ Frame: Bare copper
- ▶ Die attach: Pb solder
- ▶ Interconnect: Copper beam lead
- ▶ Mold compound: Halogen-free

Cross Section



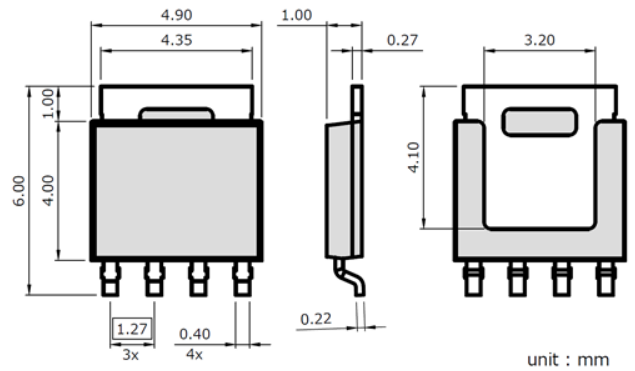
- | | |
|------------------------|------------------------------|
| A Mold compound | D Die attach material |
| B Die | E Copper beam lead |
| C Frame | |



Shipping

- ▶ Tape and reel packing
 - ▷ 3000 pcs per reel
 - ▷ Tape width: 12 mm
 - ▷ Reel Φ = 330 mm
- ▶ Barcode packing label

Package Outline Drawing



Visit amkor.com or email sales@amkor.com for more information.

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