

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 include:

- ▶ JEDEC standard pre-conditioning except for high-temperature storage
- ▶ 85°C/85% RH, 168 hours, IR reflow 260°C 3X
- ▶ PCT: 121°C/100% RH/2 atm, 96 hours
- ▶ Temp Cycle: -65°C/+150°C, 300 cycles
- ▶ High Temp Storage: 150°C, 1000 hours

Test Service

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
 - ▷ Rg *1
 - ▷ Avalanche test
 - ▷ Thermal resistance
- ▶ Program conversion
- ▶ Electrical failure analysis
- ▶ Integrated test, marking, vision inspection and tape & reel services

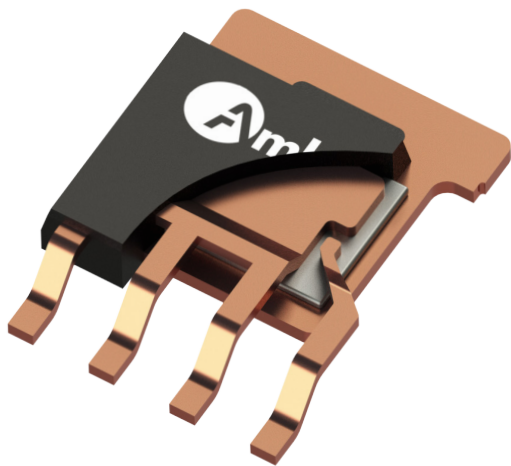
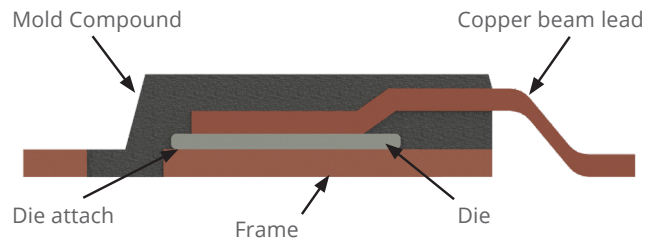
*1 Sampling test only

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Standard Materials

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

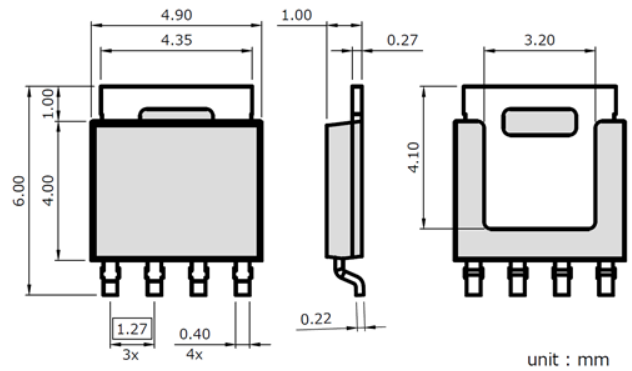
Cross-section



Shipping

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

Package Outline Drawing



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