

CMKDM8005 20V, 650mA Dual, P-Channel MOSFET in SOT-363 package



SOT-363

Central Semiconductor's CMKDM8005 consists of two 20V, 650mA P-Channel MOSFETs with exceptionally low $r_{DS(ON)}$ and low threshold voltage. This device packaged in the very small SOT-363, is an ideal solution for design engineers seeking energy efficient MOSFETs for space constrained applications.

Features:

- ESD protection up to 2kV
- Low $r_{DS(ON)}$
- Low threshold voltage
- Logic level compatible
- Low gate charge
- Drain current of 650mA per MOSFET

Applications:

- High speed pulsed amplifiers
- Load/Power switches
- Boost and buck converter circuits
- Power management
- Motor drives

Benefits:

- Closely matched characteristics
- Energy efficiency
- Integrated transient protection
- Industry standard SOT-363 package
- Strain relief gull wing configuration

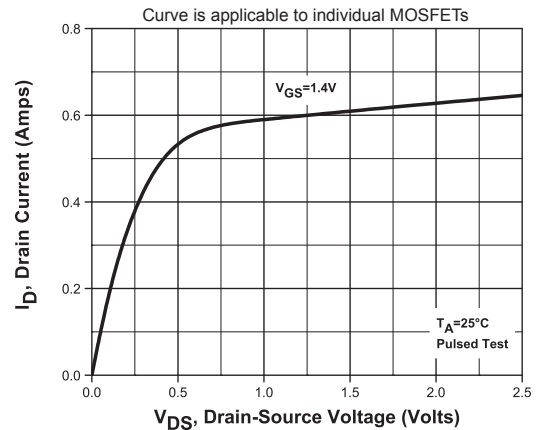
Literature:



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Typical Electrical Characteristics



Samples:



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www.centrasemi.com/info/CMKDM8005

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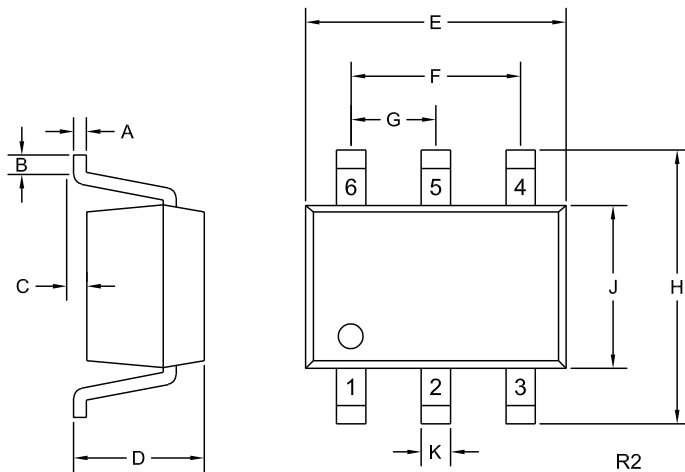


| Electrical Characteristics: ($T_A = 25^\circ\text{C}$ unless otherwise noted) | | | | | | | | | | | Thermal Characteristics | |
|--|---------------|---------------------|-----|------------------------------|-------------|-------------------|-----------------|------------------|-------------------|-------------------|-------------------------|--|
| BV_{DSS} (V) | I_D (mA) | $V_{GS(th)}$ (V) | | $r_{DS(ON)}$ (Ω) | | @ V_{GS} (V) | @ I_D (mA) | Q_{gs} (nC) | C_{iss} (pF) | C_{rss} (pF) | P_D (mW) | T_J, T_{stg} ($^\circ\text{C}$) |
| MIN | MAX | MIN | MAX | TYP | MAX | | | TYP | TYP | TYP | MAX | MAX |
| 20 | 650 | 0.5 | 1.0 | 0.25 0.37 | 0.36 0.5 | 4.5 2.5 | 350 300 | 0.24 | 100 | 25 | 350 | -65 to +150 |

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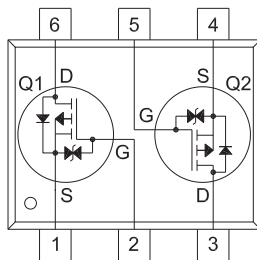
Mechanical Drawing - SOT-363



| SYMBOL | DIMENSIONS | | | |
|--------|------------|-------|-------------|------|
| | INCHES | | MILLIMETERS | |
| | MIN | MAX | MIN | MAX |
| A | 0.004 | 0.010 | 0.10 | 0.25 |
| B | 0.005 | - | 0.12 | - |
| C | 0.000 | 0.004 | 0.00 | 0.10 |
| D | 0.031 | 0.043 | 0.80 | 1.10 |
| E | 0.071 | 0.087 | 1.80 | 2.20 |
| F | 0.051 | | 1.30 | |
| G | 0.026 | | 0.65 | |
| H | 0.075 | 0.091 | 1.90 | 2.30 |
| J | 0.043 | 0.055 | 1.10 | 1.40 |
| K | 0.006 | 0.012 | 0.15 | 0.30 |

SOT-363 (REV: R2)

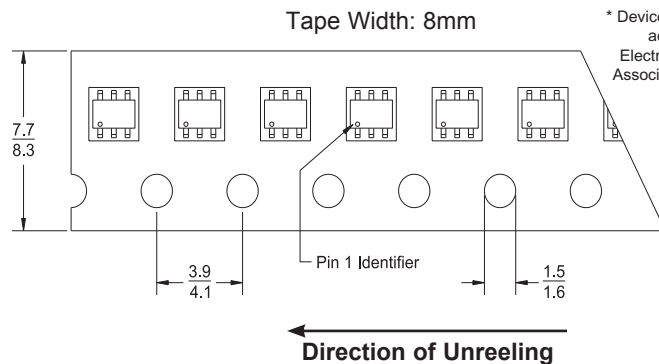
Lead Code



- 1) Source Q1
- 2) Gate Q1
- 3) Drain Q2
- 4) Source Q2
- 5) Gate Q2
- 6) Drain Q1

MARKING CODE:
C85M

Tape Dimensions and Orientation (Dimensions in mm)



* Devices are taped in accordance with Electronic Industries Association Standard EIA-481-1-A

Packaging Base / Ordering Information

| Reel Size | Quantity | Central Item No. |
|-----------|----------|------------------|
| 7" | 3,000 | CMKDM8005 TR |

Reel Packing Information

| Reel Size | Reels per Box (Maximum) | Parts per Box (Maximum) | Box Dimensions | | Shipping Weight (Max.) | |
|-----------|-------------------------|-------------------------|----------------|----------|------------------------|----|
| | | | INCH | CM | LB | KG |
| 7" | 9 | 27,000 | 9x9x5 | 23x23x13 | 3 | 2 |
| | 18 | 54,000 | 9x9x9 | 23x23x23 | 6 | 3 |
| | 40 | 120,000 | 21x9x9 | 53x23x23 | 13 | 6 |
| | 108 | 324,000 | 27x9x17 | 69x23x43 | 34 | 16 |

Sample devices available upon request. To order samples of this device visit: www.centrasemi.com/info/CMKDM8005



Innovative Discrete Semiconductors

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