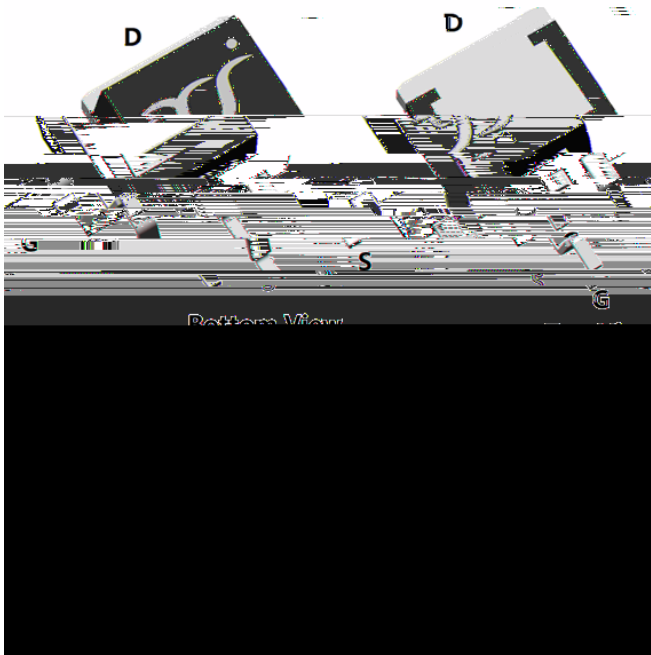




N-Channel Enhancement Mode Field Effect Transistor



Product Summary

| | |
|-----------------------------------|------|
| V_{DS} | 100V |
| I_D | 130A |
| $R_{DS(ON)}$ (at $V_{GS}=10V$) | 5m |
| $R_{DS(ON)}$ (at $V_{GS}=4.5V$) | 6m |
| 100% EAS Tested | |
| 100% VDS Tested | |

General Description

- Split gate trench MOSFET technology
- Excellent package for heat dissipation
- High density cell design for low $R_{DS(ON)}$
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free

Applications

| | |
|------------------------------|-----------|
| Power switching application | T |
| Uninterruptible power supply | |
| DC-DC | 5 AE rent |

| | | | | |
|--|-----------|----------------|----------|----|
| | $T_A=25$ | I_D | 16 | A |
| | $T_A=100$ | | 10 | |
| | $T_C=25$ | | 130 | |
| | $T_C=100$ | | 82 | |
| Pulsed Drain Current ^A | | I_{DM} | 520 | A |
| Avalanche energy ^B | | EAS | 360 | mJ |
| Total Power Dissipation ^C | $T_A=25$ | P_D | 2.7 | W |
| | $T_A=100$ | | 1.1 | |
| | $T_C=25$ | | 190 | |
| | $T_C=100$ | | 77 | |
| Junction and Storage Temperature Range | | T_J, T_{STG} | -55 +150 | |

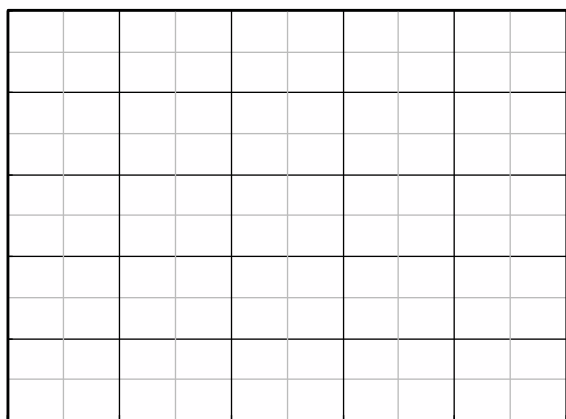
Thermal resistance

| Parameter | Symbol | Typ | Max | Units |
|---|----------|-----|-----|-------|
| Thermal Resistance Junction-to-Ambient ^D | R_{JA} | | | |

| | | | | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|------------|----|------------|-----|----------------------------|-------------------------------|------------------|
| YJB130G10A | F2 | YJB130G10A | 800 | / | 8000 | 13" reel |

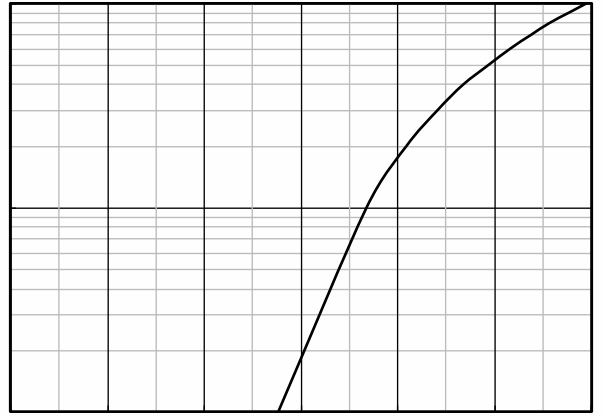
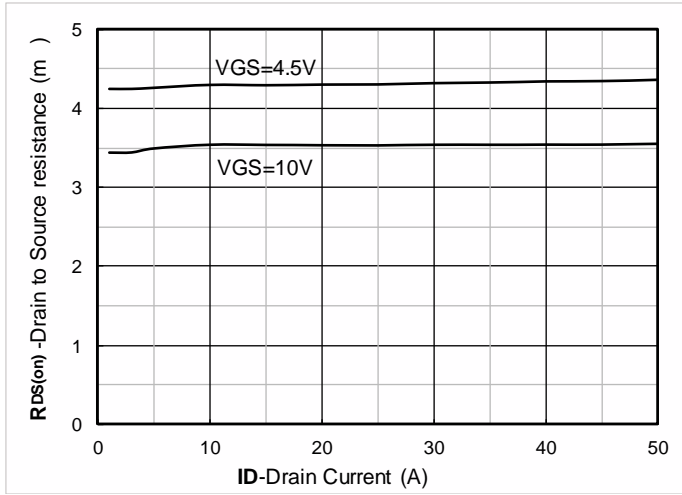


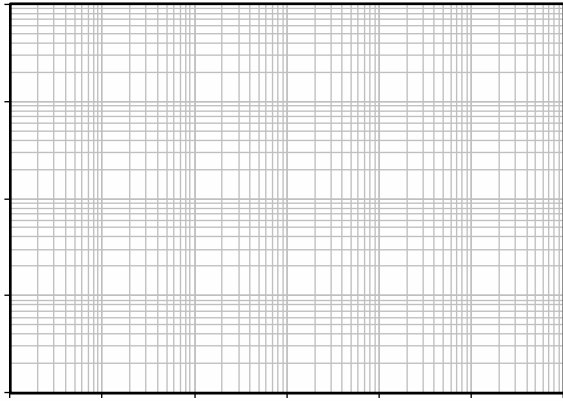
Typical Electrical and Thermal Characteristics Diagrams





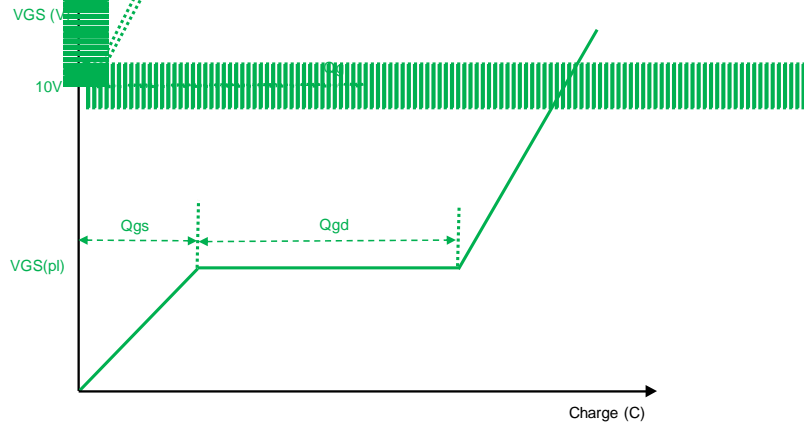
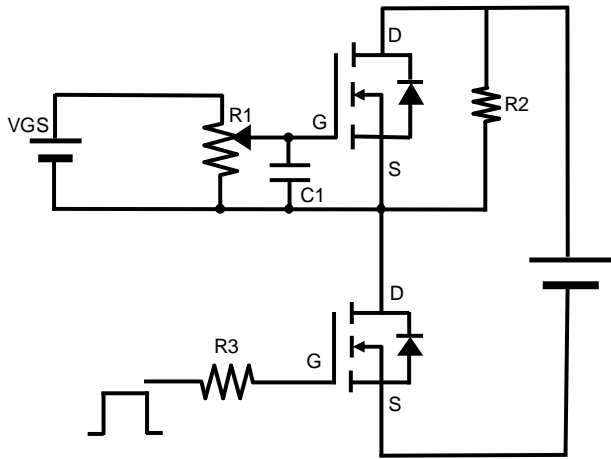
YJB130G10A







YJB130G0A





YJB130G10A

TO-263-HY Package information

TOP VIEW

SIDE VIEW

BOTTOM VIEW

| SYMBOL | DIMENSIONS | | | | | |
|--------|------------|-------|-------|------------|------|--------|
| | INCHES | | | Millimeter | | |
| | MIN. | NOM. | MAX. | MIN. | NOM. | MAX. |
| A1 | 0.000 | --- | 0.010 | 0.000 | --- | 0.250 |
| A2 | 0.174 | 0.180 | 0.186 | 4.430 | 4.58 | 4.730 |
| b | 0.028 | 0.032 | 0.036 | 0.720 | | 0.920 |
| b2 | 0.046 | 0.050 | 0.054 | 1.180 | | 1.380 |
| c | 0.013 | 0.015 | 0.018 | 0.330 | | 0.450 |
| c2 | 0.048 | 0.050 | 0.053 | 1.220 | | 1.340 |
| D1 | | | | | | |
| D2 | 0.303 | 0.315 | 0.327 | 7.700 | | 8.300 |
| E | 0.571 | 0.591 | 0.610 | 14.500 | | 15.500 |
| E1 | 0.337 | 0.341 | 0.348 | 8.550 | | 8.850 |
| E2 | | | | | | |
| e | 0.200BSC | | | 5.080BSC | | |
| L | 0.070 | | 0.110 | 1.790 | | 2.790 |
| L1 | | | | | | |
| L2 | 0.030 | | 0.070 | 0.770 | | 1.770 |
| L3 | 0.197REF | | | 0.197REF | | |
| | 0° | | 8° | 0° | | 8° |

NOTE:

- 1.PACKAGE BODY SIZES EXCLUDE MOLD FLASH AND GATE BURRS.
- 2.TOLERANCE 0.1mm UNLESS OTHERWISE SPECIFIED.
- 3.THE PAD LAYOUT IS FOR REFERENCE PURPOSES ONLY.



YJB130G10A

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