

/ Descriptions

TO-263 N MOS N-CHANNEL MOSFET in a TO-263 Plastic Package.

/ Features

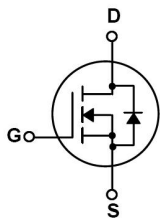
Low gate charge, low crss, fast switching.

/ Applications

DC/DC

These devices are well suited for high efficiency switching DC/DC converters and switch mode power supplies.

/ Equivalent Circuit



/ Pinning



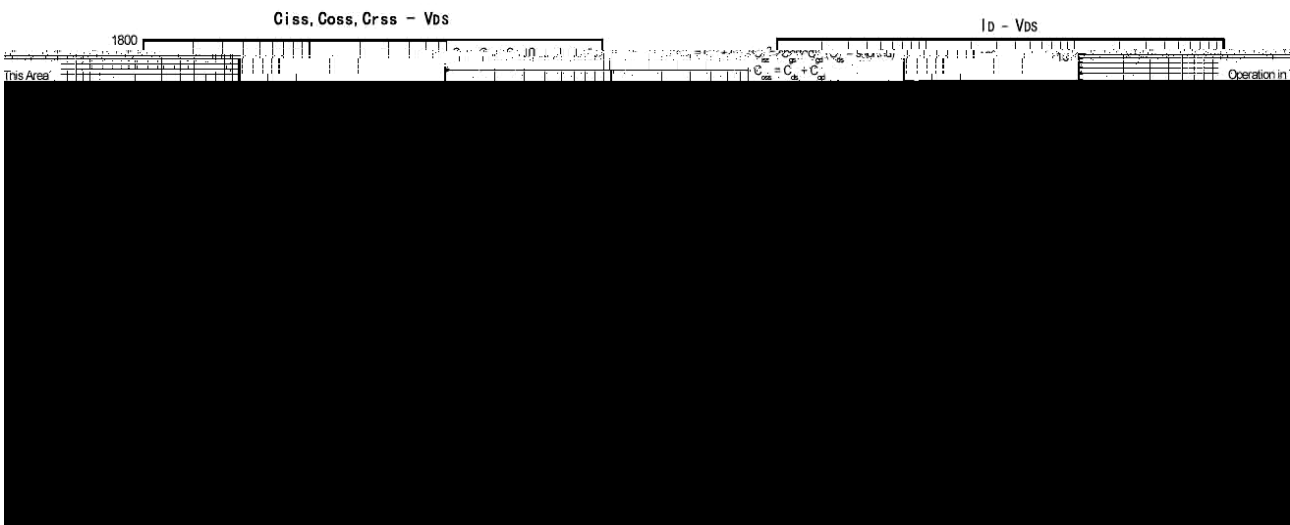
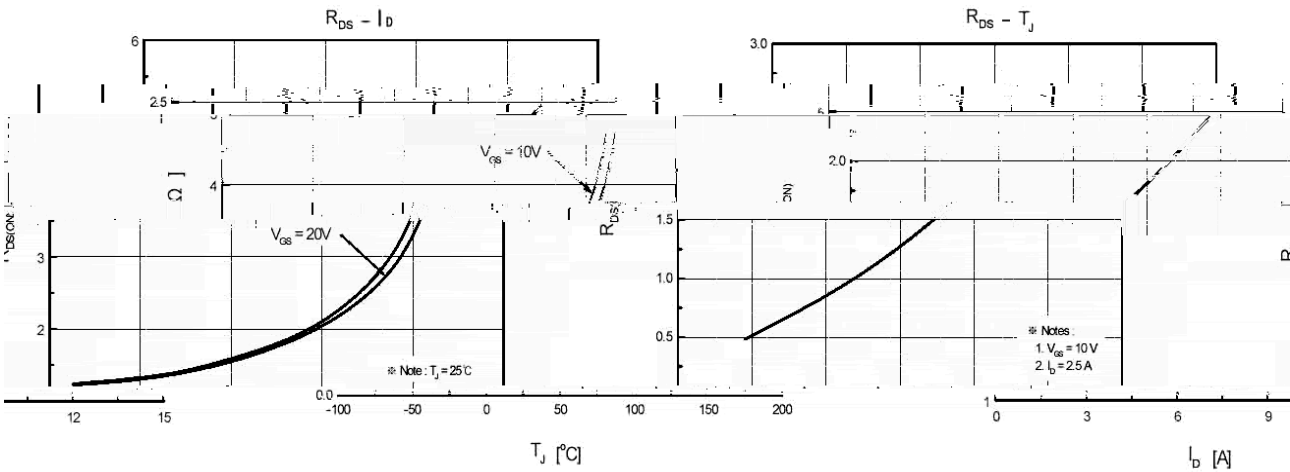
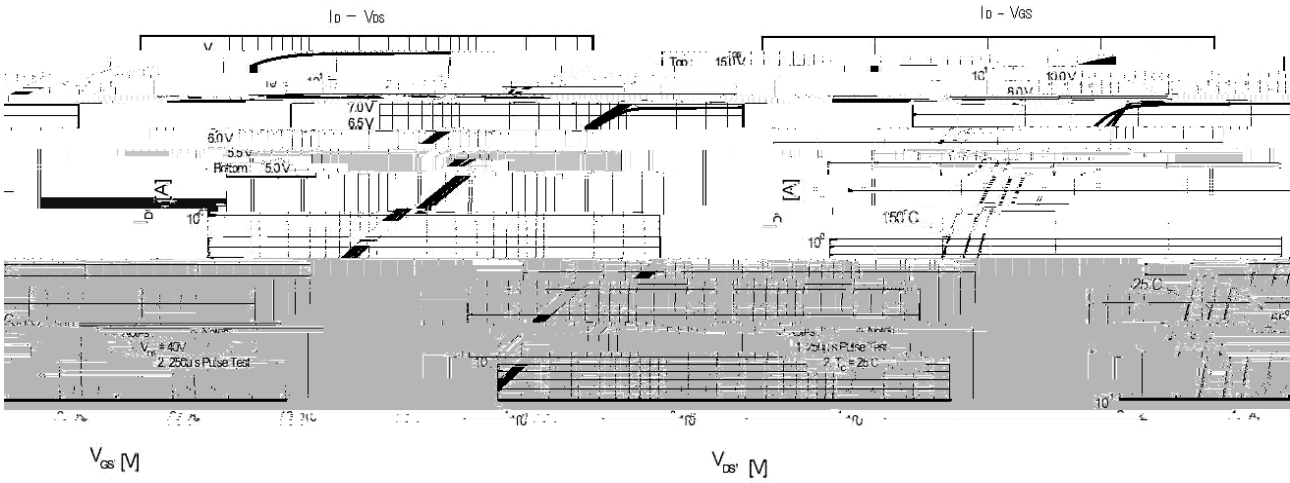
PIN1 G PIN 2,4 D PIN 3 S

/ h_{FE} Classifications & Marking

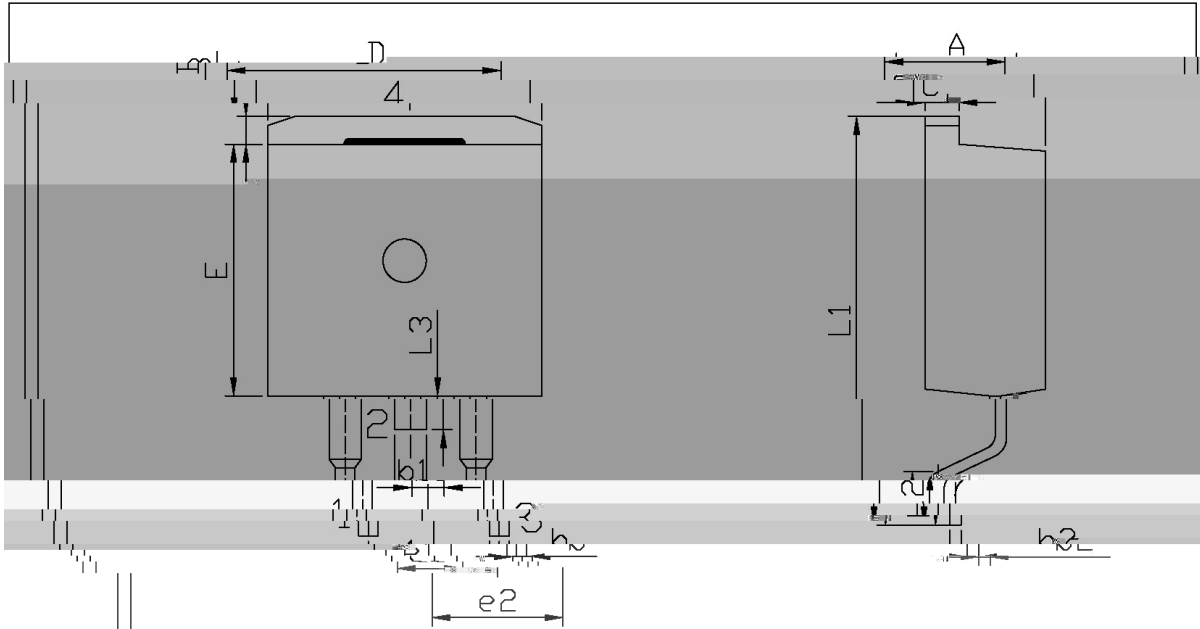
See Marking Instructions.

| Parameter | Symbol | Rating | Unit |
|----------------------|-----------------------------|--------|------|
| Drain-Source Voltage | V_{DSS} | 500 | V |
| Drain Current | $I_D(T_c=25^\circ\text{C})$ | 5.0 | A |
| Drain Current | I | | |

/ Electrical Characteristic Curve



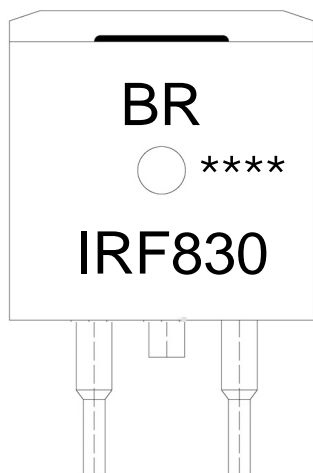
/ Package Dimensions



单位: mm

| Dimensions in Millimeters | | Dimensions in Millimeters | | Dimensions in Millimeters | | |
|---------------------------|-----|---------------------------|------|---------------------------|-----|------|
| Max | Min | Max | Min | Max | Min | |
| 9.40 | | A | 4.30 | 4.70 | E | 9.00 |
| | | B | 4.00 | 4.40 | | |
| | | C | 0.50 | 0.70 | | |
| | | D | 4.00 | 4.40 | | |
| | | L1 | 0.50 | 0.70 | | |
| | | L2 | 0.50 | 0.70 | | |
| | | L3 | 0.50 | 0.70 | | |
| | | L4 | 0.50 | 0.70 | | |
| | | L5 | 0.50 | 0.70 | | |
| | | L6 | 0.50 | 0.70 | | |
| | | L7 | 0.50 | 0.70 | | |
| | | L8 | 0.50 | 0.70 | | |
| | | L9 | 0.50 | 0.70 | | |
| | | L10 | 0.50 | 0.70 | | |
| | | L11 | 0.50 | 0.70 | | |
| | | L12 | 0.50 | 0.70 | | |
| | | L13 | 0.50 | 0.70 | | |
| | | L14 | 0.50 | 0.70 | | |
| | | L15 | 0.50 | 0.70 | | |
| | | L16 | 0.50 | 0.70 | | |
| | | L17 | 0.50 | 0.70 | | |
| | | L18 | 0.50 | 0.70 | | |
| | | L19 | 0.50 | 0.70 | | |
| | | L20 | 0.50 | 0.70 | | |
| | | L21 | 0.50 | 0.70 | | |
| | | L22 | 0.50 | 0.70 | | |
| | | L23 | 0.50 | 0.70 | | |
| | | L24 | 0.50 | 0.70 | | |
| | | L25 | 0.50 | 0.70 | | |
| | | L26 | 0.50 | 0.70 | | |
| | | L27 | 0.50 | 0.70 | | |
| | | L28 | 0.50 | 0.70 | | |
| | | L29 | 0.50 | 0.70 | | |
| | | L30 | 0.50 | 0.70 | | |
| | | L31 | 0.50 | 0.70 | | |
| | | L32 | 0.50 | 0.70 | | |
| | | L33 | 0.50 | 0.70 | | |
| | | L34 | 0.50 | 0.70 | | |
| | | L35 | 0.50 | 0.70 | | |
| | | L36 | 0.50 | 0.70 | | |
| | | L37 | 0.50 | 0.70 | | |
| | | L38 | 0.50 | 0.70 | | |
| | | L39 | 0.50 | 0.70 | | |
| | | L40 | 0.50 | 0.70 | | |
| | | L41 | 0.50 | 0.70 | | |
| | | L42 | 0.50 | 0.70 | | |
| | | L43 | 0.50 | 0.70 | | |
| | | L44 | 0.50 | 0.70 | | |
| | | L45 | 0.50 | 0.70 | | |
| | | L46 | 0.50 | 0.70 | | |
| | | L47 | 0.50 | 0.70 | | |
| | | L48 | 0.50 | 0.70 | | |
| | | L49 | 0.50 | 0.70 | | |
| | | L50 | 0.50 | 0.70 | | |
| | | L51 | 0.50 | 0.70 | | |
| | | L52 | 0.50 | 0.70 | | |
| | | L53 | 0.50 | 0.70 | | |
| | | L54 | 0.50 | 0.70 | | |
| | | L55 | 0.50 | 0.70 | | |
| | | L56 | 0.50 | 0.70 | | |
| | | L57 | 0.50 | 0.70 | | |
| | | L58 | 0.50 | 0.70 | | |
| | | L59 | 0.50 | 0.70 | | |
| | | L60 | 0.50 | 0.70 | | |
| | | L61 | 0.50 | 0.70 | | |
| | | L62 | 0.50 | 0.70 | | |
| | | L63 | 0.50 | 0.70 | | |
| | | L64 | 0.50 | 0.70 | | |
| | | L65 | 0.50 | 0.70 | | |
| | | L66 | 0.50 | 0.70 | | |
| | | L67 | 0.50 | 0.70 | | |
| | | L68 | 0.50 | 0.70 | | |
| | | L69 | 0.50 | 0.70 | | |
| | | L70 | 0.50 | 0.70 | | |
| | | L71 | 0.50 | 0.70 | | |
| | | L72 | 0.50 | 0.70 | | |
| | | L73 | 0.50 | 0.70 | | |
| | | L74 | 0.50 | 0.70 | | |
| | | L75 | 0.50 | 0.70 | | |
| | | L76 | 0.50 | 0.70 | | |
| | | L77 | 0.50 | 0.70 | | |
| | | L78 | 0.50 | 0.70 | | |
| | | L79 | 0.50 | 0.70 | | |
| | | L80 | 0.50 | 0.70 | | |
| | | L81 | 0.50 | 0.70 | | |
| | | L82 | 0.50 | 0.70 | | |
| | | L83 | 0.50 | 0.70 | | |
| | | L84 | 0.50 | 0.70 | | |
| | | L85 | 0.50 | 0.70 | | |
| | | L86 | 0.50 | 0.70 | | |
| | | L87 | 0.50 | 0.70 | | |
| | | L88 | 0.50 | 0.70 | | |
| | | L89 | 0.50 | 0.70 | | |
| | | L90 | 0.50 | 0.70 | | |
| | | L91 | 0.50 | 0.70 | | |
| | | L92 | 0.50 | 0.70 | | |
| | | L93 | 0.50 | 0.70 | | |
| | | L94 | 0.50 | 0.70 | | |
| | | L95 | 0.50 | 0.70 | | |
| | | L96 | 0.50 | 0.70 | | |
| | | L97 | 0.50 | 0.70 | | |
| | | L98 | 0.50 | 0.70 | | |
| | | L99 | 0.50 | 0.70 | | |
| | | L100 | 0.50 | 0.70 | | |

/ Marking Instructions



BR

IRF830

Note:

BR: Company Code

IRF830: Product Type.

****: Lot No. Code, code change with Lot No.

() / Temperature Profile for IR Reflow Soldering(Pb-Free)