

isc N-Channel MOSFET Transistor

2SK843

DESCRIPTION

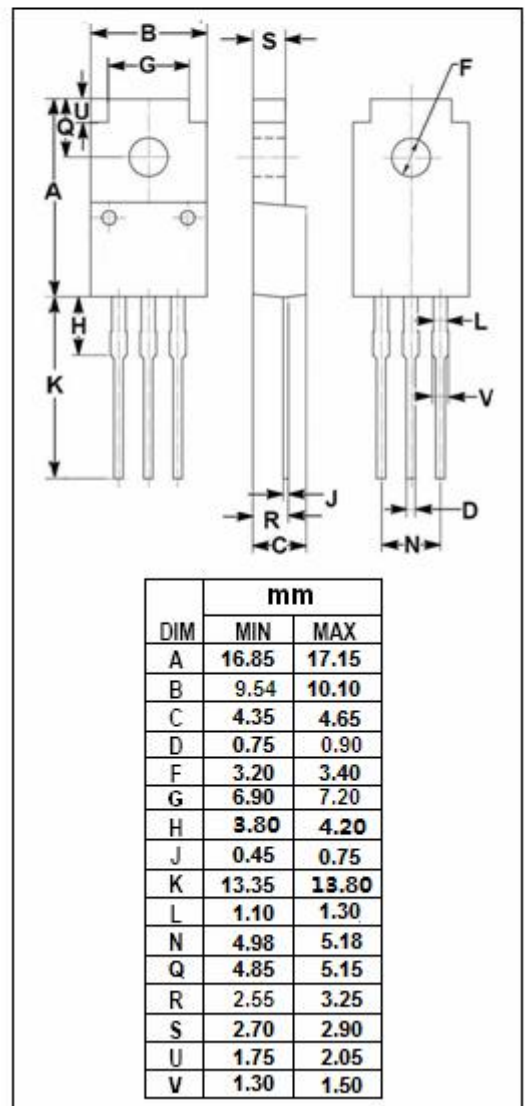
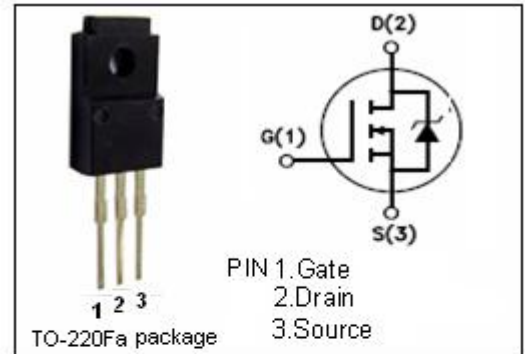
- Drain Current $-I_D=10A@ T_C=25^{\circ}C$
- Drain Source Voltage-
: $V_{DSS}= 60V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High speed power switching

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}C$)

| SYMBOL | ARAMETER | VALUE | UNIT |
|-----------|---|----------|-------------|
| V_{DSS} | Drain-Source Voltage ($V_{GS}=0$) | 60 | V |
| V_{GS} | Gate-Source Voltage | ± 20 | V |
| I_D | Drain Current-continuous@ $T_C=25^{\circ}C$ | 10 | A |
| P_{tot} | Total Dissipation@ $T_C=25^{\circ}C$ | 40 | W |
| T_j | Max. Operating Junction Temperature | 150 | $^{\circ}C$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^{\circ}C$ |



isc N-Channel Mosfet Transistor**2SK843****• ELECTRICAL CHARACTERISTICS (T_c=25°C)**

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP | MAX | UNIT |
|----------------------|----------------------------------|---|-----|-----|-----|------|
| V _{(BR)DSS} | Drain-Source Breakdown Voltage | V _{GS} =0; I _D = 10mA | 60 | | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} =0; I _D =1mA | 2.0 | | 4.0 | V |
| R _{DS(on)} | Drain-Source On-stage Resistance | V _{GS} =10V; I _D = 5A | | | 0.1 | Ω |
| I _{GSS} | Gate Source Leakage Current | V _{GS} = ±16V; V _{DS} = 0 | | | ±10 | uA |
| I _{DSS} | Zero Gate Voltage Drain Current | V _{DS} =60V; V _{GS} = 0 | | | 250 | uA |

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