

isc N-Channel MOSFET Transistor

2SK1564

DESCRIPTION

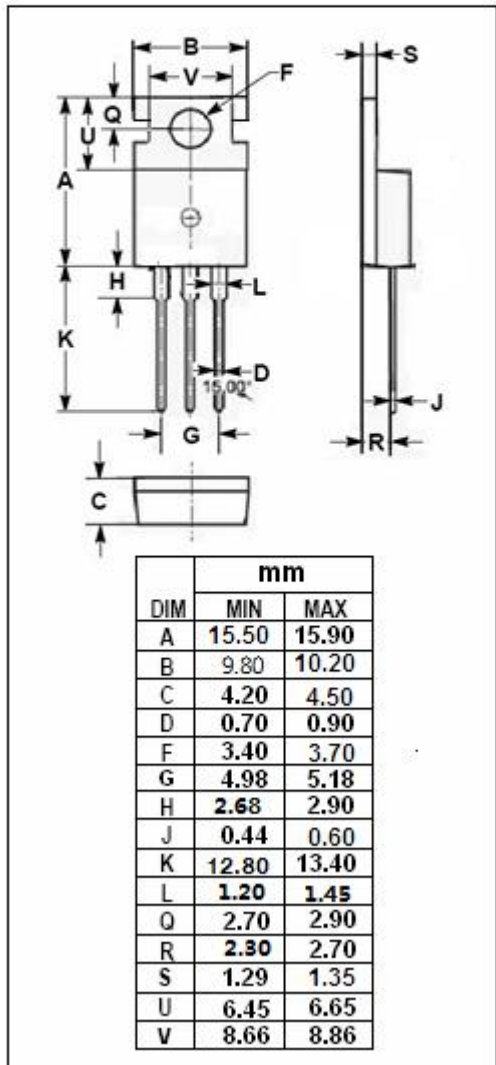
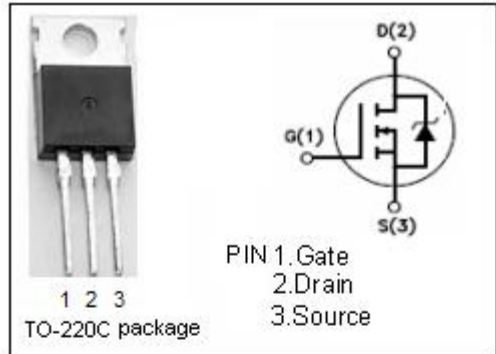
- Drain Current $-I_D=3A@ T_C=25^{\circ}C$
- Drain Source Voltage-
: $V_{DSS}=800$ (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

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

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|---|----------|-------------|
| V_{DSS} | Drain-Source Voltage ($V_{GS}=0$) | 800 | V |
| V_{GS} | Gate-Source Voltage | ± 30 | V |
| I_D | Drain Current-continuous@ $T_C=25^{\circ}C$ | 3 | A |
| P_{tot} | Total Dissipation@ $T_C=25^{\circ}C$ | 150 | W |
| T_j | Max. Operating Junction Temperature | 150 | $^{\circ}C$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^{\circ}C$ |



isc N-Channel Mosfet Transistor**2SK1564****• 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 | 800 | | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} =0; I _D =1mA | 2.0 | 3.0 | 4.0 | V |
| R _{DS(on)} | Drain-Source On-stage Resistance | V _{GS} =10V; I _D =1.5A | | | 3.6 | Ω |
| I _{GSS} | Gate Source Leakage Current | V _{GS} = ±30V; V _{DS} = 0 | | | ± 100 | nA |
| I _{DSS} | Zero Gate Voltage Drain Current | V _{DS} =800V; V _{GS} = 0 | | | 500 | uA |

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