

isc N-Channel MOSFET Transistor
2SK216K
FEATURES

- Drain Current $-I_D = 0.5A @ T_C = 25^\circ C$
- Drain Source Voltage:
: $V_{DSS} = 200V(\text{Min})$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

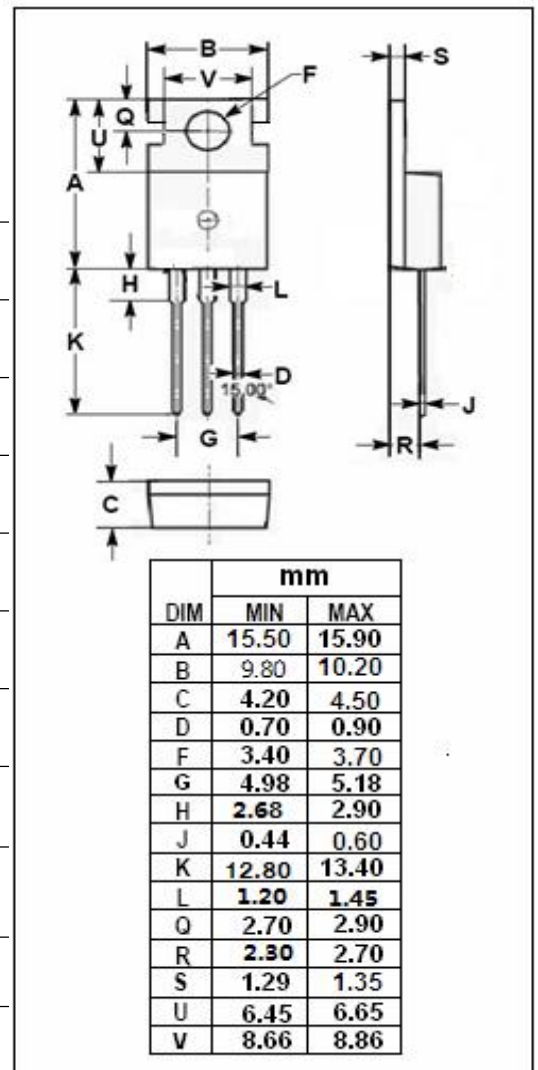
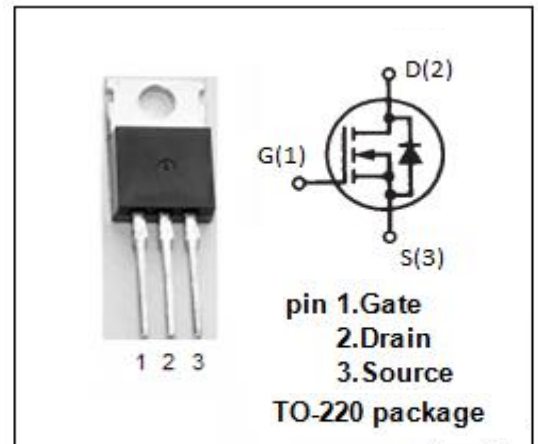
- motor drive, DC-DC converter, power switch and solenoid drive.

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

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|----------------------------------------|----------|------------|
| V_{DSS} | Drain-Source Voltage | 200 | V |
| V_{GS} | Gate-Source Voltage-Continuous | ± 15 | V |
| I_D | Drain Current-Continuous | 0.5 | A |
| I_{DM} | Drain Current-Single Pluse | 0.5 | A |
| P_D | Total Dissipation @ $T_C = 25^\circ C$ | 30 | W |
| T_J | Max. Operating Junction Temperature | 150 | $^\circ C$ |
| T_{stg} | Storage Temperature | -45~150 | $^\circ C$ |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|---------------|--------------------------------------|------|--------------|
| $R_{th\ j-c}$ | Thermal Resistance, Junction to Case | 4.17 | $^\circ C/W$ |



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ELECTRICAL CHARACTERISTICS

 $T_C=25^{\circ}\text{C}$ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | MAX | UNIT |
|---------------|--------------------------------|------------------------------------------|-----|-----|------|
| $V_{(BR)DSS}$ | Drain-Source Breakdown Voltage | $V_{GS} = -2\text{V}; I_D = 1\text{mA}$ | 200 | -- | V |
| $V_{GS(th)}$ | Gate Threshold Voltage | $V_{DS} = 10\text{V}; I_D = 10\text{mA}$ | 0.2 | 1.5 | V |

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