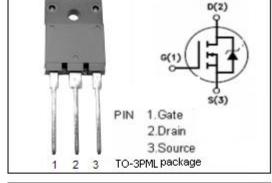


# isc N-Channel MOSFET Transistor

## 2SK1660

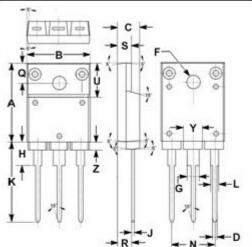
### **DESCRIPTION**

- Drain Current –I<sub>D</sub>=10A@ T<sub>C</sub>=25 °C
- Drain Source Voltage-
  - : V<sub>DSS</sub>=450 (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



### **APPLICATIONS**

 high voltage, high speed applications, such as switching regulators, converters, solenoid and relay drivers.



#### mm DIM MIN MAX 19.90 Α 20.10 15.90 5.50 D 0.90 3.30 F G 2.90 5.90 Н 0.595 22.30 1.90 10.80 Q 4.90 R 3.75 3.95 3.20 3.40 U 9.90 10.10 Υ 4.70 1.90

## ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNI T
V <sub>DSS</sub>	Drain-Source Voltage (V <sub>GS</sub> =0)	450	V
V <sub>GS</sub>	Gate-Source Voltage	±30	V
I <sub>D</sub>	Drain Current-continuous@ TC=25°C	10	Α
P <sub>tot</sub>	Total Dissipation@TC=25℃	80	W
Tj	Max. Operating Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$



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### • ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0; I <sub>D</sub> = 10mA	450			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =10V; I <sub>D</sub> =1mA	2.5		3.5	V
R <sub>DS(on)</sub>	Drain-Source On-stage Resistance	V <sub>GS</sub> =10V; I <sub>D</sub> =5A			0.65	Ω
I <sub>GSS</sub>	Gate Source Leakage Current	V <sub>GS</sub> = ±25V;V <sub>DS</sub> = 0			±100	nA
IDSS	Zero Gate Voltage Drain Current	V <sub>DS</sub> =450V; V <sub>GS</sub> = 0			500	uA
V <sub>SD</sub>	Diode Forward Voltage	I <sub>F</sub> =10A; V <sub>GS</sub> =0			2.0	V



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