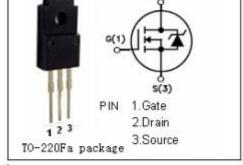


# isc N-Channel MOSFET Transistor

# 2SK1611

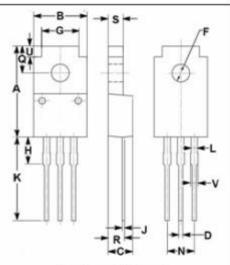
### **DESCRIPTION**

- Drain Current –I<sub>D</sub>=3A@ T<sub>C</sub>=25 °C
- · Drain Source Voltage-
  - : V<sub>DSS</sub>=800V(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(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT	
$V_{DSS}$	Drain-Source Voltage (V <sub>GS</sub> =0)	800	<b>V</b>	
$V_{GS}$	Gate-Source Voltage	±30	٧	
I <sub>D</sub>	Drain Current-continuous@ TC=25°C	3	Α	
P <sub>tot</sub>	Total Dissipation@TC=25℃	50	W	
Tj	Max. Operating Junction Temperature	150	$^{\circ}\mathbb{C}$	
T <sub>stg</sub>	Storage Temperature Range	-55~150	℃	

	mm		
DIM	MIN	MAX	
A	16.85	17.15	
В	9.90	10.10	
C	4.35	4.65	
D	0.75	0.80	
F	3.20	3.40	
G	6.90	7.10	
Н	5.15	5.45	
J	0.45	0.75	
K	13.35	13.65	
L	1.10	1.30	
N	4.98	5.18	
Q	4.85	5.15	
R	2.95	3.25	
S	2.70	2.90	
U	1.75	2.05	
V	1.30	1.50	



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## • ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=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> = 1mA	800			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =25V; I <sub>D</sub> =1mA	1.0		5.0	V
R <sub>DS(on)</sub>	Drain-Source On-stage Resistance	V <sub>GS</sub> =10V; I <sub>D</sub> =2A		3.2	4.0	Ω
I <sub>GSS</sub>	Gate Source Leakage Current	V <sub>GS</sub> = ±30V;V <sub>DS</sub> = 0			±1	uA
IDSS	Zero Gate Voltage Drain Current	V <sub>DS</sub> =640V; V <sub>GS</sub> = 0			100	uA
ton	Turn-on time	V =40V4L=20.F =400.0		40		ns
toff	Turn-off time	V <sub>GS</sub> =10V;I <sub>D</sub> =2A;R <sub>L</sub> =100 Ω		140		ns



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