## **FEATURES**

- Drain Current -I<sub>D</sub>= 3A@ T<sub>C</sub>=25 °C
- · Drain Source Voltage-
- : V<sub>DSS</sub>= 450V(Min)
- Static Drain-Source On-Resistance
  - :  $R_{DS(on)} = 2.8 \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



### **DESCRIPTION**

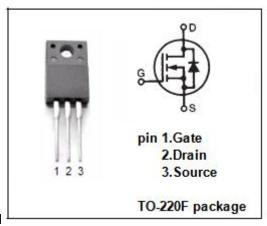
• Designed for use in switch mode power supplies and general purpose applications.

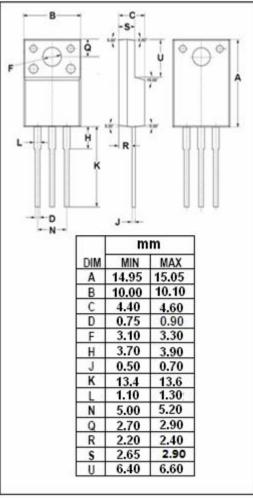


SYMBOL	PARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage	450	V
V <sub>GS</sub>	Gate-Source Voltage-Continuous	±30	V
I <sub>D</sub>	Drain Current-Continuous	3	Α
I <sub>DM</sub>	Drain Current-Single Pluse	12	Α
P <sub>D</sub>	Total Dissipation @Tc=25℃	30	W
TJ	Max. Operating Junction Temperature	150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature	-55~150	$^{\circ}$

# THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	4.17	°C/W







# isc N-Channel MOSFET Transistor

2SK2803

#### **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> = 0; I <sub>D</sub> = 0.1mA	450		V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> = V <sub>GS</sub> ; I <sub>D</sub> =1mA	2	4	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> = 1.5A		2.8	Ω
I <sub>GSS</sub>	Gate-Body Leakage Current	V <sub>GS</sub> = ±30V;V <sub>DS</sub> = 0		±100	nA
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> = 450V; V <sub>GS</sub> = 0		100	μА
V <sub>SD</sub>	Forward On-Voltage	I <sub>S</sub> =3A; V <sub>GS</sub> = 0		1.4	V



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