

# isc N-Channel MOSFET Transistor

2SK752

### **DESCRIPTION**

- Drain Current –I<sub>D</sub>= 3A@ T<sub>C</sub>=25 °C
- · Drain Source Voltage-
  - : V<sub>DSS</sub>= 160V(Min)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

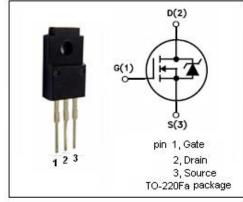


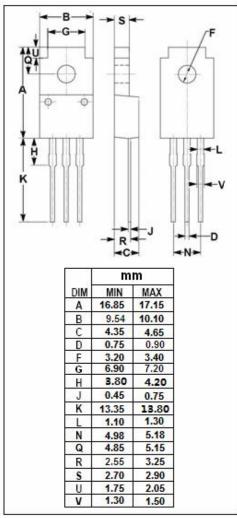
#### **APPLICATIONS**

 High speed power switching applications such as switching regulators, converters, relay drivers.



SYMBOL	ARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage (V <sub>GS</sub> =0)	160	V
V <sub>G</sub> s	Gate-Source Voltage	±20	V
l <sub>D</sub>	Drain Current-continuous@ TC=25℃	3	Α
P <sub>tot</sub>	Total Dissipation@TC=25℃	30	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$







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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> = 10mA	160			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =10 V <sub>GS</sub> ; 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			1.0	Ω
Igss	Gate Source Leakage Current	V <sub>GS</sub> = ±16V;V <sub>DS</sub> = 0			±10	uA
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> =120V; V <sub>GS</sub> = 0			250	uA
V <sub>SD</sub>	Diode Forward Voltage	I <sub>F</sub> =3A; V <sub>GS</sub> =0		1.2		V



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