

## isc N-Channel MOSFET Transistor

2SK529

**DESCRIPTION**

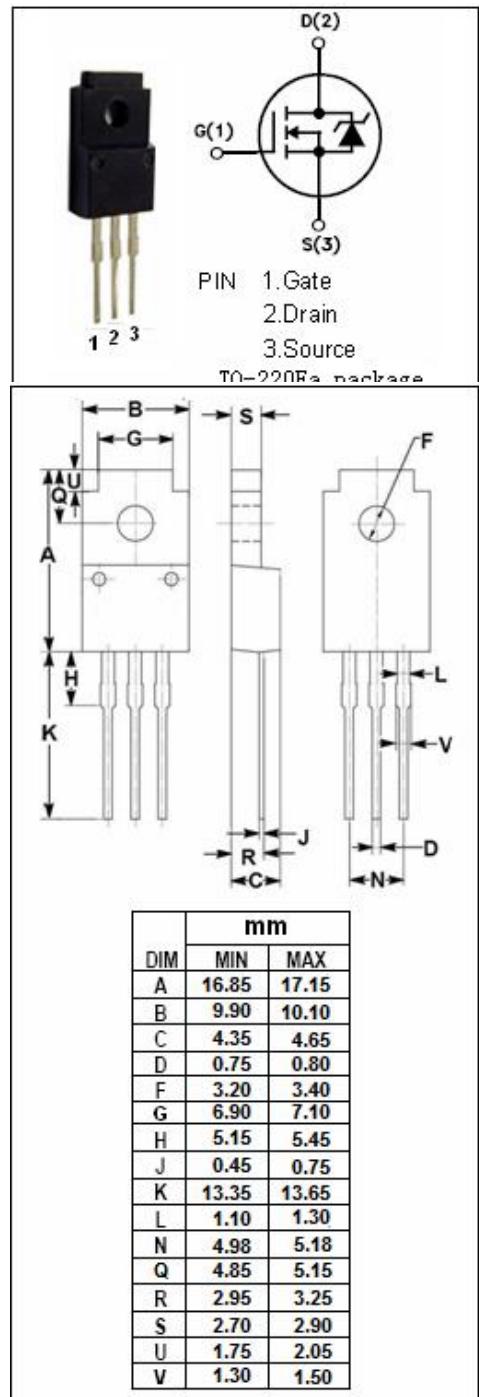
- Drain Current – $I_D=2A$  @  $T_C=25^\circ C$
- Drain Source Voltage-
  - :  $V_{DSS}=450V$ (Min)

**APPLICATIONS**

- Designed especially for high voltage,high speed applications, such as off-line switching power supplies , UPS,AC and DC motor controls,relay and solenoid drivers.

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage ( $V_{GS}=0$ )	450	V
$V_{GS}$	Gate-Source Voltage	$\pm 20$	V
$I_D$	Drain Current-continuous@ $TC=25^\circ C$	2	A
$P_{tot}$	Total Dissipation@ $TC=25^\circ C$	30	W
$T_j$	Max. Operating Junction Temperature	150	°C
$T_{stg}$	Storage Temperature Range	-55~150	°C



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• ELECTRICAL CHARACTERISTICS ( $T_c=25^\circ\text{C}$ )

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(\text{BR})\text{DSS}}$	Drain-Source Breakdown Voltage	$V_{GS}=0$ ; $I_D= 10\text{mA}$	450			V
$V_{GS(\text{TH})}$	Gate Threshold Voltage	$V_{DS}= 10\text{V}$ ; $I_D= 1\text{mA}$	1.5		3.5	V
$R_{DS(\text{ON})}$	Drain-Source On-stage Resistance	$V_{GS}= 10\text{V}$ ; $I_D=1\text{A}$			2.6	$\Omega$
$V_{DS(\text{ON})}$	Drain-Source Saturation Voltage	$I_F= 1\text{A}$ ; $V_{GS}=10\text{V}$		10	13	V
$I_{GSS}$	Gate Source Leakage Current	$V_{GS}= \pm 20\text{V}$ ; $V_{DS}= 0$			$\pm 1$	$\mu\text{A}$
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS}=450\text{V}$ ; $V_{GS}= 0$			1	$\text{mA}$