

isc N-Channel MOSFET Transistor

2SK526

DESCRIPTION

- Drain Current $-I_D=10A@ T_C=25^{\circ}C$
- Drain Source Voltage-
: $V_{DSS}=250V(Min)$
- Fast Switching Speed

APPLICATIONS

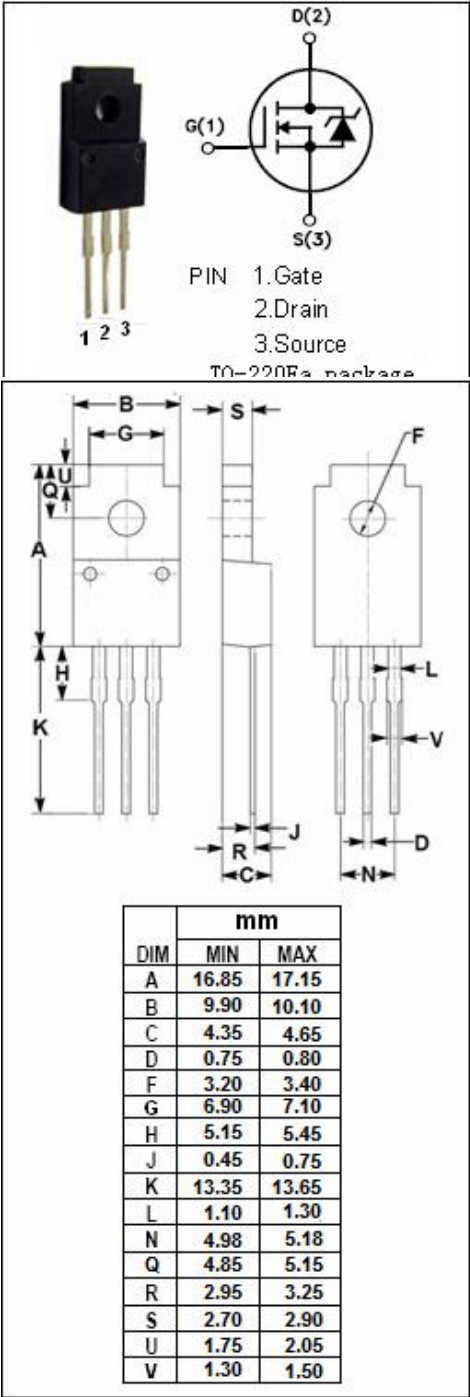
- Designed especially for low voltage,high speed applications, such as off-line switching power supplies , UPS,AC and DC motor controls,relay and solenoid drivers.

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

SYMBOL	ARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS}=0$)	250	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-continuous@ $TC=25^{\circ}C$	10	A
P_{tot}	Total Dissipation@ $TC=25^{\circ}C$	40	W
T_j	Max. Operating Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	1.67	$^{\circ}C/W$
$R_{th\ j-a}$	Thermal Resistance,Junction to Ambient	62.5	$^{\circ}C/W$



isc N-Channel Mosfet Transistor**2SK526****• ELECTRICAL CHARACTERISTICS (T_C=25°C)**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	250			V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	1.5		3.5	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D =5A		0.4	0.6	Ω
V _{DS(ON)}	Drain-Source Saturation Voltage	I _F = 10A; V _{GS} =10V		4.5	7	V
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =250V; V _{GS} = 0			1	mA
t _r	Rise time	V _{GS} =10V; I _D =5A; R _L =50 Ω		50	100	ns
t _{on}	Turn-on time			70	140	ns
t _f	Fall time			60	120	ns
t _{off}	Turn-off time			160	320	ns