

isc N-Channel MOSFET Transistor

2SK526

DESCRIPTION

- Drain Current –I_D=10A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}=250V(Min)
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

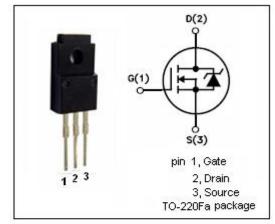
 Designed especially for low voltage, high speed applications, such as off-line switching power supplies, UPS,AC and DC motor controls, relay and solenoid drivers.

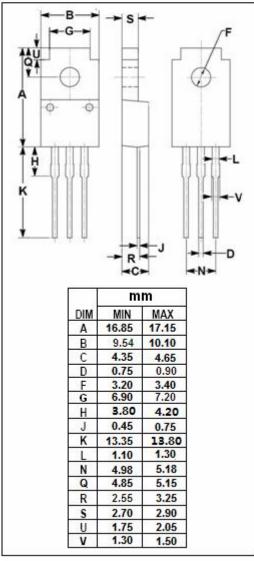
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	250	V
V _{GS}	Gate-Source Voltage ±2		V
I _D	Drain Current-continuous@ TC=25℃ 10		Α
P _{tot}	Total Dissipation@TC=25℃	40	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$



SYMBOL	PARAMETER	MAX	UNIT	
R _{th j-c}	Thermal Resistance,Junction to Case	1.67	°C/W	
R _{th j-a}	Thermal Resistance,Junction to Ambient	62.5	°C/W	







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• 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



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