

isc N-Channel MOSFET Transistor

2SK2564

DESCRIPTION

- Drain Current I_D= 8A@ T_C=25℃
- Drain Source Voltage-
 - : V_{DSS}= 600V(Min)
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS



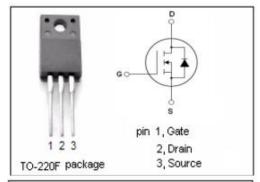
• Designed for high efficiency switch mode power supply.

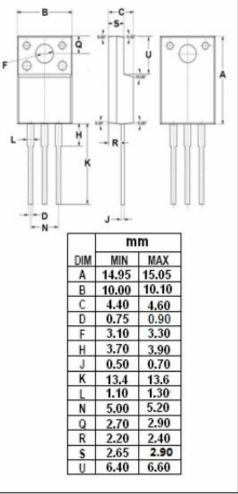
ABSOLUTE MAXIMUM RATINGS(Tc=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	600	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ T _C =25℃	8	А
I _{D(puls)}	Pulse Drain Current	24	А
P _{tot}	Total Dissipation@Tc=25°C 50		W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case 3.4		°C/W
R _{th j-a}	th j-a Thermal Resistance, Junction to Ambient		°C/W







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• ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250μA	600			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	2.5		3.5	V
V_{SD}	Diode Forward On-Voltage	I _S =4A ;V _{GS} = 0			1.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =4A			1.2	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} =±30V;V _{DS} = 0			±0.1	μΑ
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0			250	μΑ

NOTICE:

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