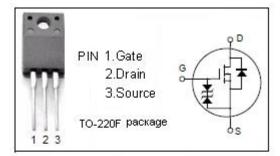


isc N-Channel MOSFET Transistor

2SK2115

DESCRIPTION

- Drain Current –I_D= 5A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 500V(Min)
- · High speed power switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

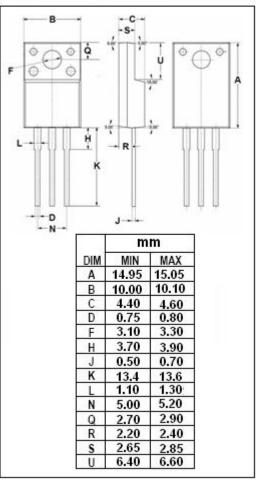


APPLICATIONS

• Suitable for Switching regulator

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage (V _{GS} =0)	500	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ TC=25℃	5	Α
I _{D(puls)}	Pulsed Drain Current	20	А
P _{tot}	Total Dissipation@TC=25℃	35	W
T _j	Max. Operating Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$



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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	500			V
V _{(BR)GSS}	Gate-Source Breakdown Voltage	V _{DS} = 0; I _G =100μA	±30			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =1mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A		1.2	1.5	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0			±10	μA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 400V; V _{GS} = 0			250	μA
Ciss	Input Capacitance	V _{DS} =10V;		640		
Crss	Reverse Transfer Capacitance	V_{GS} =0 V ; f_T =1 MHz		20		pF
Coss	Output Capacitance			160		
tr	Rise Time	V 40V		25		
t d(on)	Turn-on Delay Time	V_{GS} =10 V ; I_D =2.5 A ; R_L =12 Ω		10		- Ns
tf	Fall Time			30		
td(off)	Turn-off Delay Time			50		

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