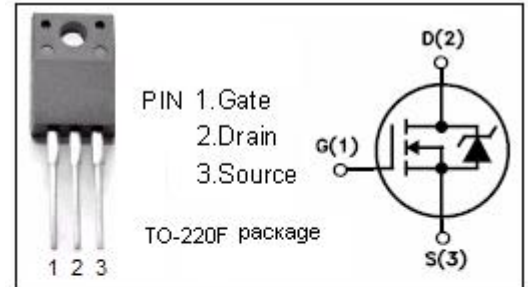


isc N-Channel MOSFET Transistor

2SK2333

DESCRIPTION

- Drain Current $I_D = 6A @ T_C = 25^\circ C$
- Drain Source Voltage-
: $V_{DSS} = 700V(\text{Min})$
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

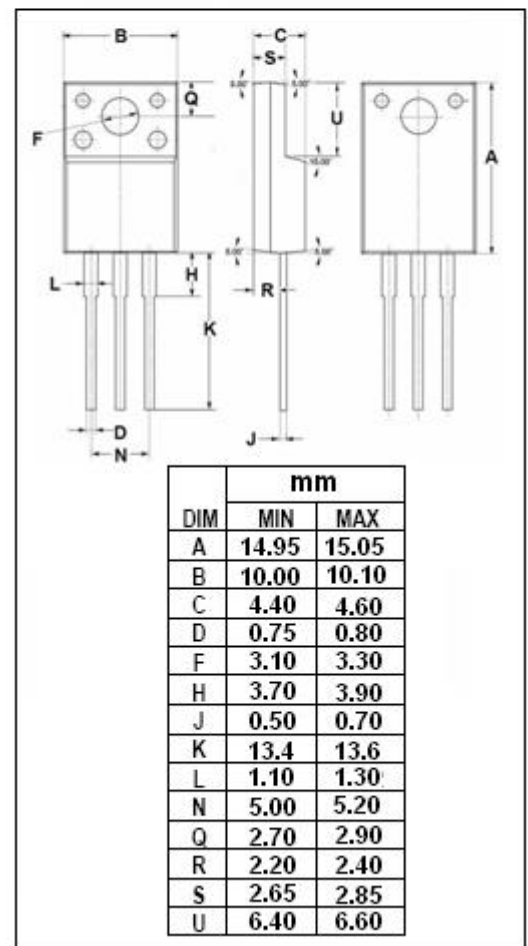


APPLICATIONS

- Switching Regulators

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

SYMBOL	ARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS}=0$)	700	V
V_{GS}	Gate-Source Voltage	± 30	V
I_D	Drain Current-continuous@ $T_C = 25^\circ C$	6	A
$I_{D(puls)}$	Pulsed Drain Current	18	A
P_{tot}	Total Dissipation@ $T_C = 25^\circ C$	50	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc N-Channel Mosfet Transistor

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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 = 1mA	700			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =1mA	2.5		3.5	V
V _{SD}	Forward On-Voltage	I _S =3A; V _{GS} =0			1.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 3A		1.5	2.0	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V; V _{DS} = 0			± 100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 700V; V _{GS} = 0			250	μA
C _{iss}	Input Capacitance	V _{DS} =10V;		1250		pF
C _{rss}	Reverse Transfer Capacitance	V _{GS} =0V;		250		
C _{oss}	Output Capacitance	f _r =1MHz		530		
t _r	Rise Time	V _{GS} =10V; I _D =3A;		60	110	ns
t _f	Fall Time	R _L =50 Ω		160	250	

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