

isc N-Channel MOSFET Transistor

2SK2645

• FEATURES

- Drain Current I_D= 9A@ T_C=25℃
- Drain Source Voltage-
 - : V_{DSS}= 600V(Min)
- · High speed Switching
- · Repetitive Avalanche rated
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

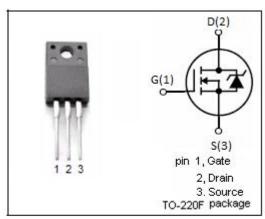


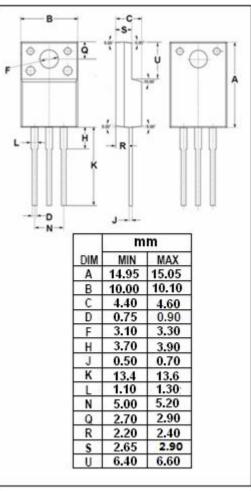
• DC-DC converter, Switching Regulators, General Purpose Power Amplifier

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	600	V				
V _{GS}	Gate-Source Voltage-Continuous	±30	V				
I _D	Drain Current-Continuous 9		Α				
P_D	Total Dissipation @T _C =25℃	50	W				
Tj	Max. Operating Junction Temperature 150		$^{\circ}$ C				
T _{stg}	Storage Temperature -55~150		$^{\circ}$ C				
• THERMAL CHARACTERISTICS							

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	ase 2.5	
R _{th j-a}	Thermal Resistance, Junction to Ambient	62.5	°C/W







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• ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =1mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	3.5		4.5	V
VsD	Forward voltage(Diode)	I _{DR} = 9A ;V _{GS} = 0			1.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 4A		1.0	1.2	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0			100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =600V; V _{GS} = 0			500	μA

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