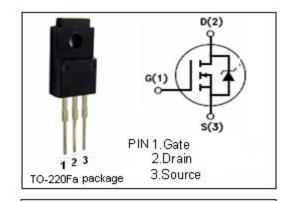


isc N-Channel MOSFET Transistor

2SK846

DESCRIPTION

- Drain Current -I_D=3A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 900V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· high voltage, high speed power switching

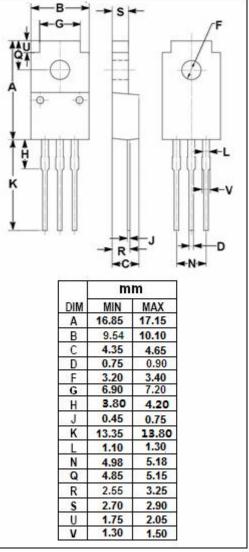
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	900	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=25℃	5	Α
P _{tot}	Total Dissipation@TC=25℃	45	W
T _j	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

UNIT V V A W °C °C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.0	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	62.5	°C/W





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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	900			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =0; I _D =1mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =1.5A			4.0	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =900V; V _{GS} = 0			0.1	mA



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