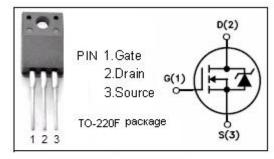


isc N-Channel MOSFET Transistor

2SK2185

DESCRIPTION

- Drain Current I_D= 5A@ T_C=25 ℃
- Drain Source Voltage-
 - : V_{DSS}= 500V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

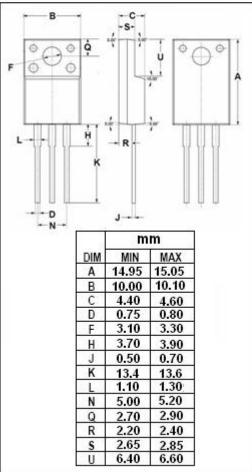


APPLICATIONS

· General purpose power amplifier

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		А
I _{D(puls)}	Pulse Drain Current	15	Α
P _{tot}	Total Dissipation@T _C =25℃	30	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	°C





isc N-Channel Mosfet Transistor

2SK2185

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =1mA	2.5	3.0	3.5	V
V _{SD}	Forward On-Voltage	I _S =2.5A; V _{GS} =0			1.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A		1.1	1.5	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} = 0			250	μΑ
Ciss	Input Capacitance	V _{DS} =10V;		580		
Crss	Reverse Transfer Capacitance	V _{GS} =0V;		45		pF
Coss	Output Capacitance	f _τ =1MHz		140		
ton	Turn-on Time	V _{GS} =10V;I _D =2.5A;		55	90	ns
toff	Turn-off Time	R _L =60 Ω		110	170	113

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.