

Isc N-Channel MOSFET Transistor

2SK3505

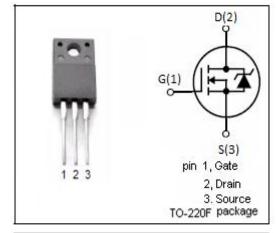
• FEATURES

- · With To-220F packaging
- · Low input capacitance and gate charge
- · Low gate input resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· Switching applications

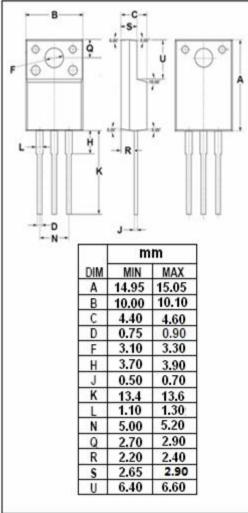


• ABSOLUTE MAXIMUM RATINGS(Ta=25 C)				
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SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	500	V	
V_{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	14	Α	
I _{DM}	Drain Current-Single Pulsed	56	А	
P _D	Total Dissipation @Tc=25℃	60	W	
T _{ch}	Max. Operating Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	
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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.08	°C/W
Rth(ch-a)	Channel-to-ambient thermal resistance	62	°C/W



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =0.25mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	3.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =7A		350	460	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =500V; V _{GS} = 0V;Tj=25°C V _{DS} =400V; V _{GS} = 0V;Tj=150°C			25 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =14A, V _{GS} = 0 V		1.0	1.5	V

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