

isc N-Channel MOSFET Transistor

2SK428

• FEATURES

- · With TO-220 packaging
- · High speed switching
- · Very high commutation ruggedness
- · Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operationz

APPLICATIONS

- PFC stages
- LCD & PDP TV
- Power supply
- · Switching applications

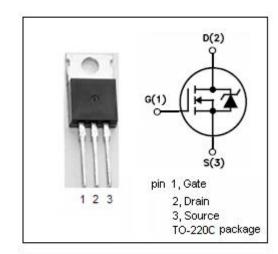


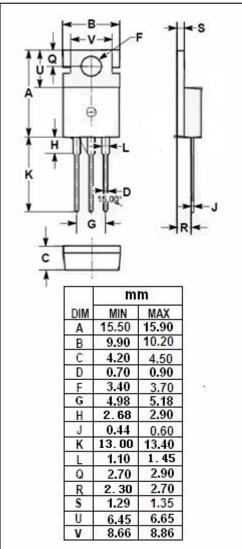
• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

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SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	V				
V _{GSS}	Gate-Source Voltage ±20		V			
I _D	Drain Current-Continuous 10		А			
I _{DM}	Drain Current-Single Pulsed 15		А			
P _D	Total Dissipation	50	W			
T _j	Operating Junction Temperature	-55~150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.2	°C/W
Rth(ch-a)	Channel-to-ambient thermal resistance	62.5	°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 = 10mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D =1mA	2.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 15V; I _D =5A		0.1	0.15	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 50V; V _{GS} = 0V			1	mA
V _{SDF}	Diode forward voltage	I _{SD} =5A, V _{GS} = 0 V		0.9		V



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