

isc N-Channel MOSFET Transistor

2SK3430-Z

• FEATURES

- With TO-263(D2PAK) packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

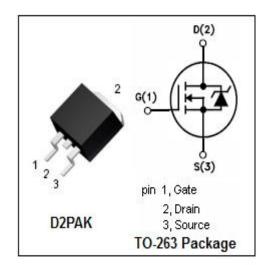
- · Power supply
- · Switching applications

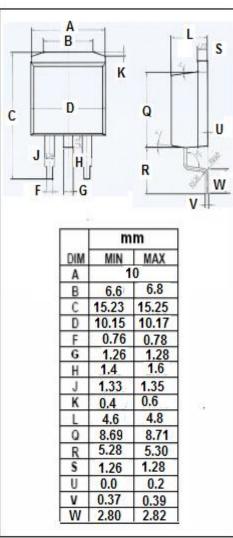
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	V		
V _{GSS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous 80		А	
I _{DM}	Drain Current-Single Pulsed 200		А	
P _D	Total Dissipation	84	W	
T _j	Operating Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature -55~150		$^{\circ}$ C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance 1.4		°C/W	
Rth(ch-a)	(ch-a) Channel-to-ambient thermal resistance		°C/W	





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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =0.25mA	40			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =1mA	1.5		2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =40A		5.9	7.3	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V			±10	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =40V; V _{GS} = 0V			10	μ А
V _{SDF}	Diode forward voltage	I _{SD} =80A, V _{GS} = 0 V			1.0	V

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