

Isc N-Channel MOSFET Transistor

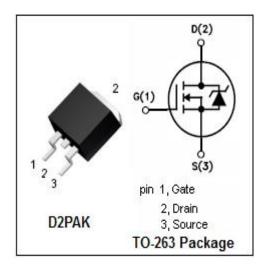
STB15N80K5

• FEATURES

- · With To-263(D2PAK) package
- · 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



Switching applications

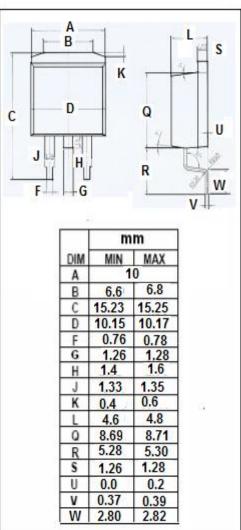


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	800	V	
V _{GSS}	Gate-Source Voltage	±30	۸V	
I _D	Drain Current-ContinuousTc=25℃ Tc=100℃	14 8.8	А	
I _{DM}	Drain Current-Single Pulsed	56	А	
P _D	Total Dissipation @Tc=25℃	190	W	
T _{ch}	Max. Operating Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.66	°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 =1mA	800			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.1mA	3.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =7A		300	375	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V			±10	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =800V; V _{GS} = 0V;Tj=25°C V _{DS} =800V; V _{GS} = 0V;Tj=150°C			1 50	μА
V _{SDF}	Diode forward voltage	I _{SD} =14A, V _{GS} = 0V			1.5	V



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