

isc N-Channel Mosfet Transistor

STB20NM50

- FEATURES
- Drain Current I_D= 20A@ T_C=25℃
- · Drain Source Voltage-

: V_{DSS}= 500V(Min)

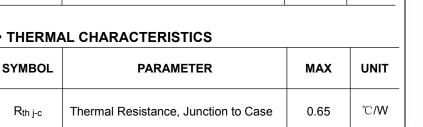
- · Fast Switching Speed
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

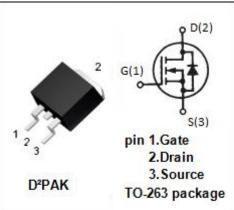
Switching applications

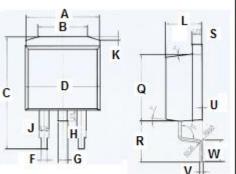
• A

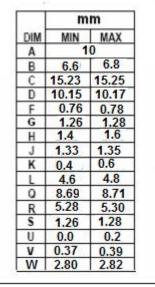
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	500	v				
V_{GS}	Gate-Source Voltage	±30	v				
ID	Drain Current-continuous@ T _c =25℃	20	A				
I _{DM}	Pulse Drain Current	80	A				
P _{tot}	Total Dissipation@T _C =25℃	192	w				
Tj	Max. Operating Junction Temperature	-65~150	°C				
T _{stg}	Storage Temperature Range	-65~150	°C				
• THERM	AL CHARACTERISTICS	1	L				



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25\,^{\circ}\!\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	500			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250µA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 10A			250	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0			±100	nA
loss	Zero Gate Voltage Drain Current	V _{DS} = Max rating			1	- μΑ
		V _{DS} = Max rating; T _C =125℃			10	
V _{SD}	Diode Forward On-Voltage	I _S = 20A ;V _{GS} = 0			1.5	V

NOTICE:

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