

Isc N-Channel MOSFET Transistor

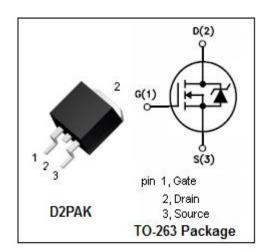
STB75NF75T4

• FEATURES

- · With To-263(D2PAK) package
- Excellent switching performance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Switching applications

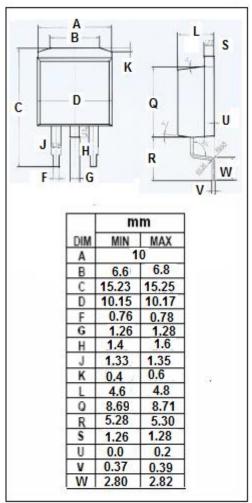


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	75	V	
V_{GSS}	Gate-Source Voltage ±20		V	
I _D	$ \begin{array}{ccc} \text{Drain Current-Continuous@T}_{\text{c}}=25^{\circ}\!$		А	
I _{DM}	Drain Current-Single Pulsed	320	А	
P _D	Total Dissipation @T _C =25℃	sipation @T _C =25°C 300		
T _{ch}	Max. Operating Junction Temperature	175	5 °C	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	2.14	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	100	°C/W	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	75			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = ±20V; I _D =0.25mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =40A		9.5	11	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 75V; V _{GS} = 0V; T _J =25℃ T _J =125℃			1 10	μА
V _{SDF}	Diode forward voltage	I _{SD} =80A, V _{GS} = 0 V			1.5	V

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