

Isc N-Channel MOSFET Transistor

STB23NM60ND

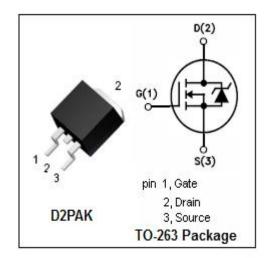
• FEATURES

- · 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



APPLICATIONS

Switching applications

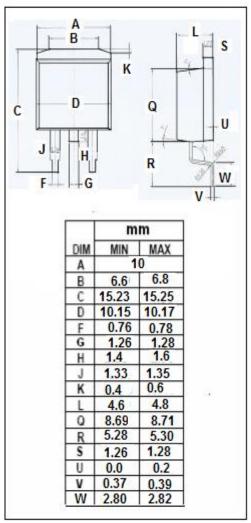


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±25	V
I _D	Drain Current-Continuous@T _C =25℃ T _C =125℃	20 12.6	А
I_{DM}	Drain Current-Single Pulsed	80	Α
P _D	Total Dissipation @Tc=25℃	150	W
T _{ch}	Max. Operating Junction Temperature	150	$^{\circ}\!\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.83	°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 = 1mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = ±25V; I _D =0.25mA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =10A		150	180	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V; T _J =25℃ T _J =125℃			1 100	μА
V _{SDF}	Diode forward voltage	I _{SD} =20A, V _{GS} = 0 V			1.3	V

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