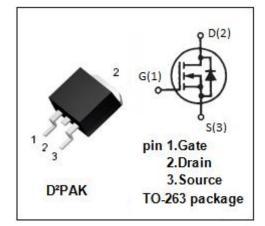


Isc N-Channel MOSFET Transistor

STB18N65M5

• FEATURES

- Higher V_{DSS} rating
- Excellent switching performance
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation
- APPLICATIONS
- Switching applications

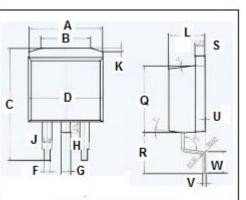


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GSS}	Gate-Source Voltage	±25	V
ID	Drain Current-Continuous@T _c =25℃ T _c =100℃	15 9.4	A
I _{DM}	Drain Current-Single Pulsed	60	A
P _D	Total Dissipation	110	W
Tj	Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	-55~150	°C
• THERM	IAL CHARACTERISTICS		

THERMAL CHARACTERISTICS							
SYMBOL	PARAMETER	MAX	UNIT				
Rth(ch-c)	Channel-to-case thermal resistance	1.14	°C/W				

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	m	m
DIM	MIN	MAX
A	1	0
В	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
н	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
0	8.69	8.71
R	5.28	5.30
S	1.26	1.28
U	0.0	0.2
V	0.37	0.39
W	2.80	2.82



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	650			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 =7.5A			220	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V; T _J =25°C T _J =125°C			1 100	μA
VSDF	Diode forward voltage	I _{SD} =15A, V _{GS} = 0 V			1.5	V

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