

# isc N-Channel MOSFET Transistor

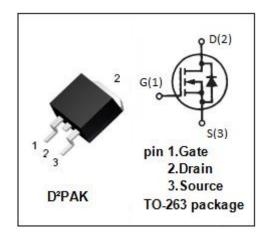
## STB11N65M5

### • FEATURES

- With TO-263(D<sup>2</sup>PAK) packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Power supply
- Switching applications

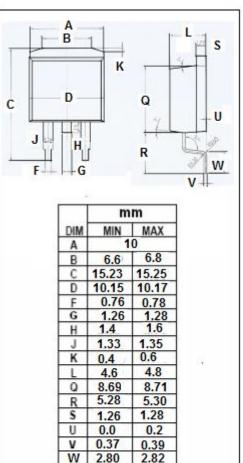


### • ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>DSS</sub>	Drain-Source Voltage	650	V	
V <sub>GSS</sub>	Gate-Source Voltage	±25	V	
I <sub>D</sub>	Drain Current-Continuous;@Tc=25°C Tc=100°C	9 5.6	А	
$I_{DM}$	Drain Current-Single Pulsed	36	Α	
$P_D$	Total Dissipation	85	W	
Tj	Operating Junction Temperature	150	${\mathbb C}$	
T <sub>stg</sub>	Storage Temperature	-55~150	$^{\circ}$	

#### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.47	°C/W





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#### **ELECTRICAL CHARACTERISTICS**

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> = 1mA	650			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	$V_{DS}$ = $V_{GS}$ ; $I_D$ =0.25mA	3.0		5.0	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =4.5A		430	480	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	$V_{GS}$ = $\pm 20V$ ; $V_{DS}$ = $0V$			±0.1	μА
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> = 650V; V <sub>GS</sub> = 0V			1	μА
V <sub>SDF</sub>	Diode forward voltage	I <sub>SD</sub> =25A, V <sub>GS</sub> = 0 V			1.5	V



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