

isc N-Channel MOSFET Transistor

STB35N65M5

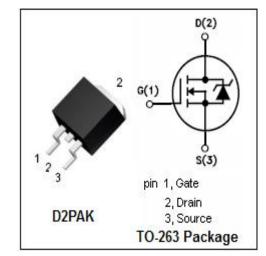
• FEATURES

- With TO-263(D2PAK) 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



K

6.8

0.78

1.35

0.6

4.8

8.71

5.30

1.28

0.2

0.39

2.82

1.26

0.0

0.37

2.80

W

S

U

W

• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	650	V	
V _{GSS}	Gate-Source Voltage	±25	V	
I _D	$\begin{array}{c} \text{Drain Current-Continuous@T}_{\text{C}}\text{=}25^{\circ}\!$	27 17	А	
I _{DM}	Drain Current-Single Pulsed	108	А	
P _D	Total Dissipation	160	W	
T _j	Operating Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

D C mm MIN MAX A 6.6 15.23 15.25 10.15 10.17 0.76 1.26 1.4 1.33 0.4 4.6 8.69 5.28

В

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.78	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	50	°C/W	



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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1.0mA	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	3.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =13.5A		85	98	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V;Tc=25℃ Tc=125℃			1 100	μ А
V _{SDF}	Diode forward voltage	I _{SD} =27A, V _{GS} = 0 V			1.5	V

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