

isc N-Channel Mosfet Transistor

8N65

• FEATURES

- Drain Current −I_D= 8A@ T_C=25 °C
- Drain Source Voltage- : V_{DSS}= 650V(Min)
- Static Drain-Source On-Resistance : $R_{DS(on)} = 1.4 \Omega$ (Max)
- Avalanche Energy Specified
- Fast Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

- High efficiency switch mode power supply
- PWM motor controls
- High efficient DC to DC converters

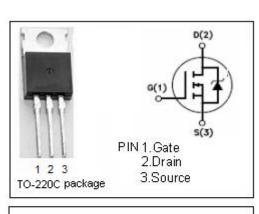
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	650	V			
V _{GS}	Gate-Source Voltage-Continuous	±30	V			
ID	Drain Current-Continuous	8	A			
I _{DM}	Drain Current-Single Plused	32	А			
PD	Total Dissipation @Tc=25°C 147		W			
Tj	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

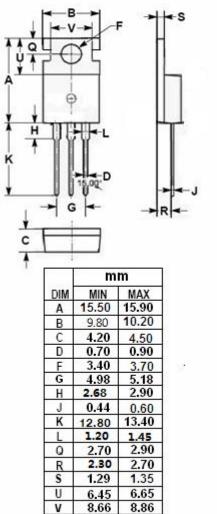
• ABSOLUTE MAXIMUM RATINGS(T_a=25[°]C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.85	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	62.5	°C/W

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	650		V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 0.25mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 4A		1.4	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V; V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 650V; V _{GS} = 0		10	μA
Vsd	Forward On-Voltage	I _S = 8A; V _{GS} = 0		1.4	V

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