

isc N-Channel MOSFET Transistor

FEATURES

- Drain Current : I_D= 5.0A@ T_C=25℃
- · Drain Source Voltage
 - : V_{DSS}= 650V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 2.4 \Omega (Max) @ V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

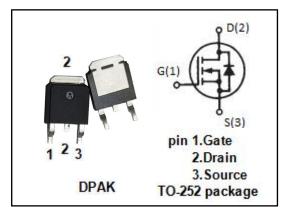
 motor drive, DC-DC converter, power switch and solenoid drive.

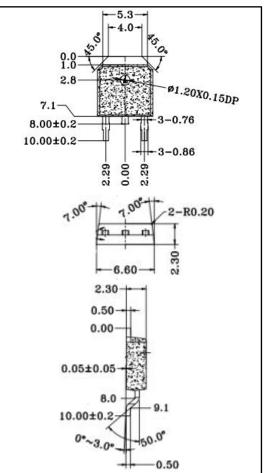
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABOOLOTE MACHINOM TEXTITOO(Ta 200)							
SYMBOL	PARAMETER	VALUE	UNIT				
$V_{ extsf{DSS}}$	Drain-Source Voltage	650	V				
V _{GS}	Gate-Source Voltage-Continuous	±30	V				
I _D	Drain Current-Continuous	5.0	А				
І _{ОМ}	Drain Current-Single Pluse	20	А				
P_D	Total Dissipation @T _C =25℃ 54		W				
TJ	Max. Operating Junction Temperature -55~150		$^{\circ}$				
T _{stg}	Storage Temperature -55~150		${\mathbb C}$				

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.3	°C/W







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5N65K

ELECTRICAL CHARACTERISTICS

T_C=25℃ 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} = 10V; I _D = 0.25mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A		2.4	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 650V; V _{GS} = 0		1.0	uA
V _{SD}	Forward On-Voltage	I _S = 5.0A; V _{GS} = 0		1.4	V

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