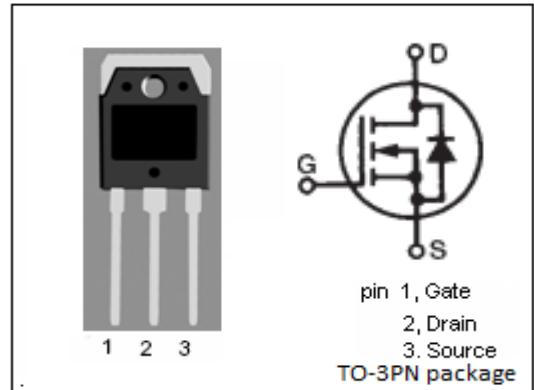


iscN-Channel MOSFET Transistor

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FEATURES

- Drain Current – $I_D=7A$ @ $T_C=25^\circ C$
- Drain Source Voltage-
: $V_{DSS}=300V$ (Min)
- Static Drain-Source On-Resistance
: $R_{DS(on)}=0.13\ \Omega$ (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

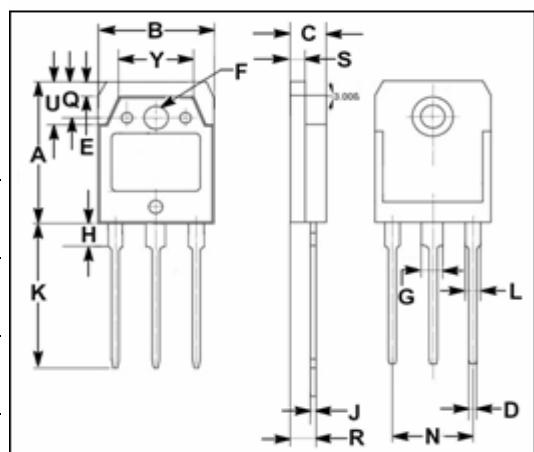


DESCRIPTION

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

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	500	V
V_{GS}	Gate-Source Voltage-Continuous	± 20	V
I_D	Drain Current-Continuous	16	A
P_D	Total Dissipation @ $T_c=25^\circ C$	200	W
T_J	Max. Operating Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55~150	°C



DIM	mm	
	MIN	MAX
A	19.60	20.30
B	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	19.80	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.20
Y	9.90	10.10

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Thermal Resistance, Junction to Case	1.25	°C/W

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ELECTRICAL CHARACTERISTICS

 $T_c=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(\text{BR})\text{DSS}}$	Drain-Source Breakdown Voltage	$V_{GS}= 0\text{V}; I_D= 10\text{mA}$	500	--	V
$V_{GS(\text{th})}$	Gate Threshold Voltage	$V_{DS}= 0\text{V}; I_D= 1\text{mA}$	2	4	V
$R_{DS(\text{on})}$	Drain-Source On-Resistance	$V_{GS}= 10\text{V}; I_D= 8\text{A}$	--	0.4	Ω
I_{GSS}	Gate-Body Leakage Current	$V_{GS}= \pm 20\text{V}; V_{BS}= 0$	--	± 0.1	μA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}= 500\text{V}; V_{GS}= 0$	--	500	μA

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