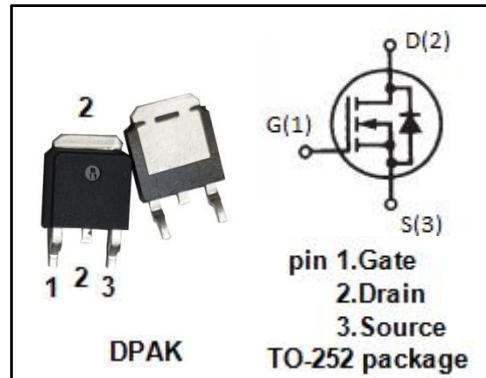


isc N-Channel MOSFET Transistor

NTD5867NL

FEATURES

- Drain Current – $I_D = 20A$ @ $T_c=25^\circ\text{C}$
- Drain Source Voltage- : $V_{DSS} = 60\text{V}(\text{Min})$
- Static Drain-Source On-Resistance : $R_{DS(on)} = 39\text{m}\Omega$ (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

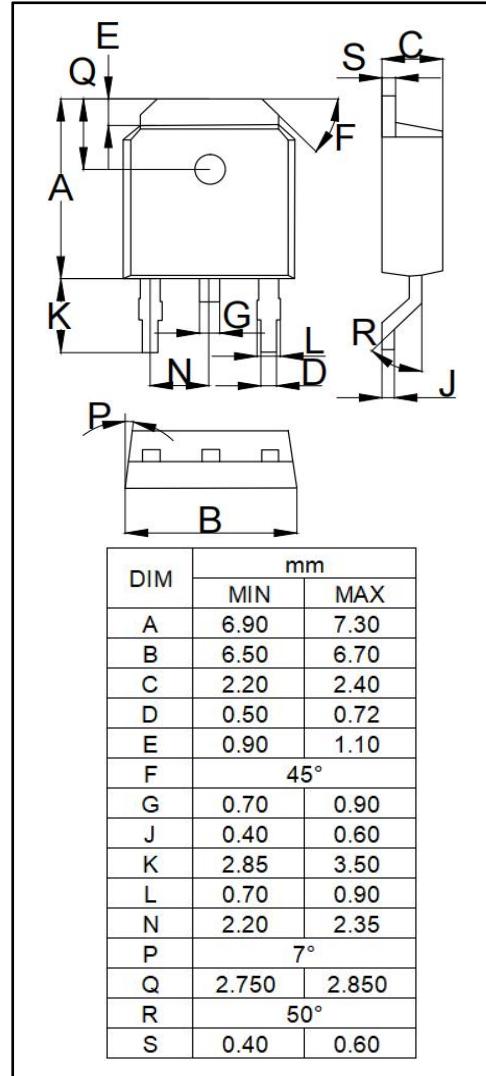


DESCRIPTION

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

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	60	V
V_{GS}	Gate-Source Voltage-Continuous	± 20	V
I_D	Drain Current-Continuous	20	A
I_{DM}	Drain Current-Single Pulse	76	A
P_D	Total Dissipation @ $T_c=25^\circ\text{C}$	36	W
T_J	Max. Operating Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Thermal Resistance, Junction to Case	3.5	$^\circ\text{C/W}$

isc N-Channel MOSFET Transistor**NTD5867NL****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	60	--	V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	1.5	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 10A	--	39	MΩ
		V _{GS} = 4.5V; I _D = 10A	--	50	
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V; V _{DS} = 0	--	±0.1	uA
I _{DS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0	--	1.0	uA
V _{SD}	Forward On-Voltage	I _S = 10A; V _{GS} = 0	--	1.2	V

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