

isc P-Channel MOSFET Transistor

NVD5117PL

FEATURES

- Drain Current : I_D= -61A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= -60V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 16m \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

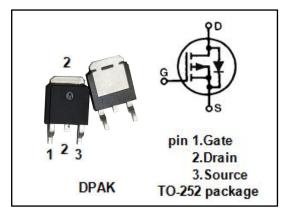
 motor drive, DC-DC converter, power switch and solenoid drive.

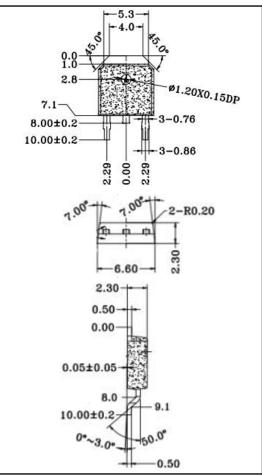
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	-60	V
V _{GS}	Gate-Source Voltage-Continuous		V
I _D	Drain Current-Continuous -61		А
P _D	Total Dissipation @T _C =25℃ 118		W
TJ	Max. Operating Junction Temperature	-55~175	$^{\circ}$
T _{stg}	Storage Temperature -55~175		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.3	°C/W







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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	-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 = -29A V _{GS} = -4.5V; I _D = -29A	1	16 22	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0	-	±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = -60V; V _{GS} = 0		-1.0	uA
V_{SD}	Forward On-Voltage	I _S = -29A; V _{GS} = 0	-	-1.0	V

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