

isc N-Channel MOSFET Transistor IPD127N06L,IIPD127N06L

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤12.7mΩ
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· Fast switching

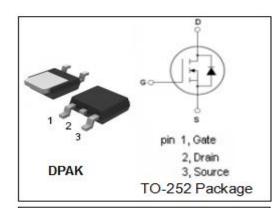


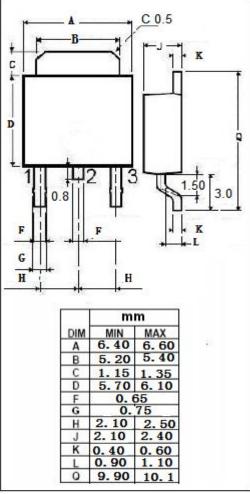
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	60	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	50	Α	
I_{DM}	Drain Current-Single Pulsed	200	А	
P _D	Total Dissipation @Tc=25℃	136	W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$ C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(j-c)	Channel-to-case thermal resistance	1.1	°C/W	
Rth(j-a)	Channel-to-ambient thermal resistance	75	°C/W	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.08mA	1.2		2	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =50A			12.7	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V			0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =60V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =50A, V _{GS} = 0V			1.3	V

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