

isc N-Channel MOSFET Transistor

IPD60R600P6,IIPD60R600P6

FEATURES

- Static drain-source on-resistance: R_{DS}(on)≤0.6Ω
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

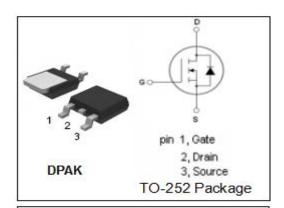
· Fast switching

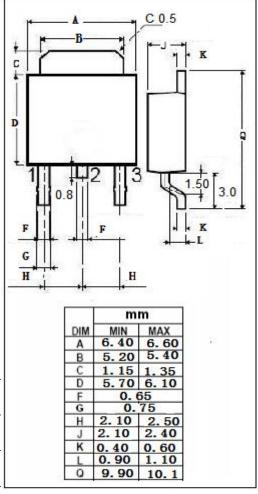
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{DSS}	Drain-Source Voltage	600	V	
V_{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	7.3	А	
I _{DM}	Drain Current-Single Pulsed	18	А	
P _D	Total Dissipation @Tc=25°C	63	W	
Tj	Max. Operating Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	2	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	62	°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	600			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =0.2mA	3.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =2.4A			0.6	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μ А
V _{SD}	Diode forward voltage	I _F =3A, V _{GS} = 0V		0.9		V

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