

INCHANGE SEMICONDUCTOR

pin 1, Gate 2, Drain

3, Source

K

3.0

TO-252 Package

C 0.5

MAX

0.

10

0.40

0.90

9.90

2. 10

Н

K

0

35

10

50

40

0. 60

isc N-Channel MOSFET Transistor IPD60R600P7S, IIPD60R600P7S

FEATURES

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

DESCRITION

· Fast switching

• ABSOLUTE MAYIMUM DATINGS/T

• ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	600	V			
V_{GS}	Gate-Source Voltage	±20	V			
lo	Drain Current-Continuous	6	А			
I _{DM}	Drain Current-Single Pulsed	16	А			
PD	Total Dissipation @T _c =25°C	30	W			
Tj	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature	-40~150	°C			

PARAMETER

Channel-to-case thermal resistance

Channel-to-ambient thermal resistance

H H mm MIN 6.40 DIM 6.60 Α 5.20 5.40 В 1.15 D 5. 70 6. UNIT 0.

MAX

4.19

62

°C/W

°C/W

DPAK

THERMAL CHARACTERISTICS

SYMBOL

Rth(j-c)

Rth(j-a)



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	600			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; ID=0.08mA	3		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =1.7A			0.6	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =1.7A, V _{GS} = 0V		0.9		V

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