

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor IPD60R280P7, IIPD60R280P7

FEATURES

- Static drain-source on-resistance: Ros(on)≤0.28Ω
- Enhancement mode:
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

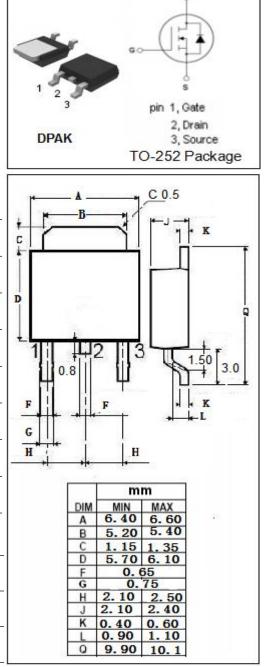
· Suitable for a wide variety of applications and power ranges

 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	12	А			
I _{DM}	Drain Current-Single Pulsed	36	А			
PD	Total Dissipation @T _c =25°C	53	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



isc website: www.iscsemi.cn

THERMAL CHARACTERISTICS

SYMBOL

Rth(j-c)

Rth(j-a)

1

MAX

2.36

62

UNIT

°C/W

°C/W



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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; I _D =0.19mA	3		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =3.8A			0.28	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 =3.8A, V _{GS} = 0V		0.9		V

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