

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor IPD70R950CE,IIPD70R950CE

FEATURES

- · Static drain-source on-resistance:
 - Ros(on)≤0.95Ω
- Enhancement mode:
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

- · Fast switching
- · Very high commutation ruggedness

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	700	V
V _{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-Continuous	7.4	А
I _{DM}	Drain Current-Single Pulsed	12	А
PD	Total Dissipation @T _c =25°C	68	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

MAX

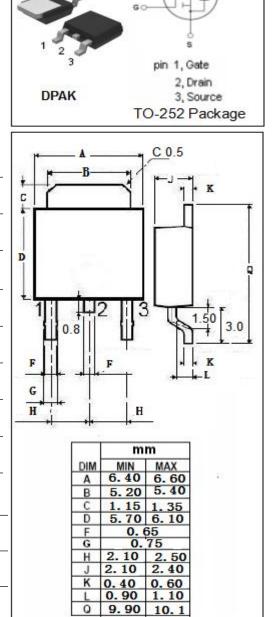
1.85

62

UNIT

°C/W

°C/W



isc website: www.iscsemi.cn

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	700			V
V _{GS} (th)	Gate Threshold Voltage	VDS=VGS; ID=0.15mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =1.5A			0.95	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =700V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =2.2A, V _{GS} = 0V		0.9		V

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