

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPD60R950C6, IIPD60R950C6

FEATURES

- Static drain-source on-resistance: $R_{\text{DS}}(\text{on}){\leqslant}0.95\Omega$
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

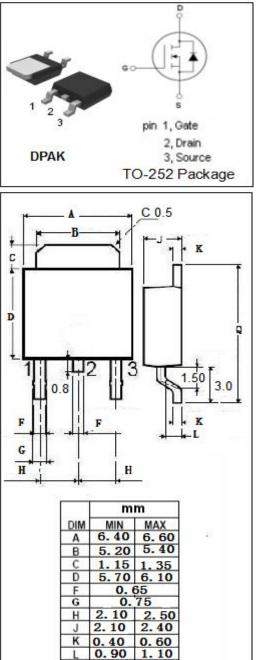
· Fast switching

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C

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PARAMETER	VALUE	UNIT		
Drain-Source Voltage	600	V		
Gate-Source Voltage±20Drain Current-Continuous4.4Drain Current-Single Pulsed12		V		
		А		
		А		
Total Dissipation @T _c =25°C	37	W		
Max. Operating Junction Temperature	150	°C		
Storage Temperature	-55~150	°C		
	PARAMETER Drain-Source Voltage Gate-Source Voltage Drain Current-Continuous Drain Current-Single Pulsed Total Dissipation @Tc=25°C Max. Operating Junction Temperature	PARAMETERVALUEDrain-Source Voltage600Gate-Source Voltage±20Drain Current-Continuous4.4Drain Current-Single Pulsed12Total Dissipation @Tc=25°C37Max. Operating Junction Temperature150		

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	3.41	°C /W
Rth(j-a)	Rth(j-a) Channel-to-ambient thermal resistance		°C /W



9.90

10

0



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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 =0.25mA	600			V
V _{GS} (th)	Gate Threshold Voltage	VDS=VGS; ID=0.13mA	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} =600V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =1.9A, V _{GS} = 0V		0.9		V

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