

isc N-Channel MOSFET Transistor

IPD60R600CP,IIPD60R600CP

• FEATURES

- Static drain-source on-resistance: $\mathsf{R}\mathsf{D}\mathsf{s}(\mathsf{on}) \!\!\leqslant\! 0.6 \Omega$
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· High peak current capability

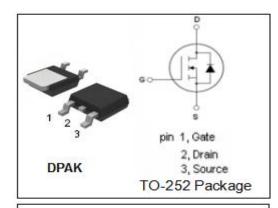
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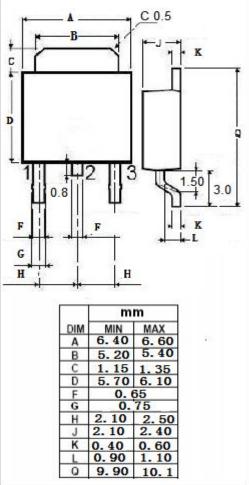
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-Continuous	6.1	Α
I _{DM}	Drain Current-Single Pulsed	15	Α
P_D	Total Dissipation @T _C =25℃	60	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	orage Temperature -55~150		$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	2.1	°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 =0.25mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.22mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =3.3A			0.6	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =3.3A, V _{GS} = 0V			1.2	V

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