

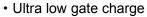
isc N-Channel MOSFET Transistor

IPI60R600CP

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤0.6Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION





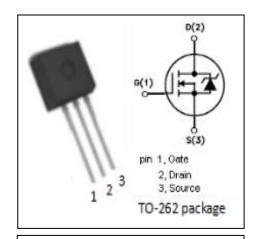


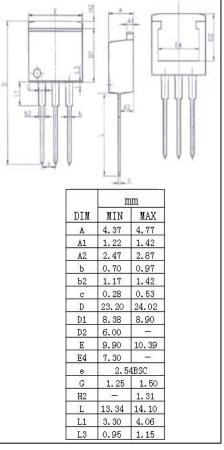
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.1	°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; ID =0.25mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =0.22mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=3.3A			0.6	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μА
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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