

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPA60R125P6,IIPA60R125P6

FEATURES

- Drain-source on-resistance: R⊳s(on) ≤0.125Ω (max)
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

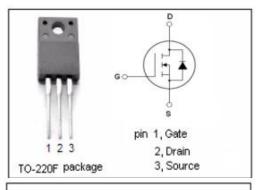
DESCRITION

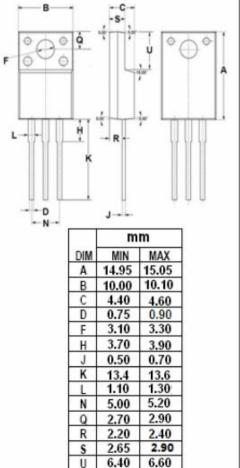
• It is intended for general purpose switching applications

• 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	30	А				
I _{DM}	Drain Current-Single Pulsed	87	A				
PD	Total Dissipation @T _c =25°C	34	W				
Tj	Max. Operating Junction Temperature	150	°C				
T _{stg}	Storage Temperature	-55~150	°C				

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	3.65	°C/W	







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ELECTRICAL CHARACTERISTICS

Tc=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	V _{DS} = V _{GS} ; I _D =0.96mA	3.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =11.6A			0.125	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} = 0V			100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			2	μA
V _{SD}	Diode forward voltage	I _{DR} =14.5A, V _{GS} = 0 V			0.9	V

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