

Isc N-Channel MOSFET Transistor

IPA60R190P6

• FEATURES

- · Drain Source Voltage-
- : V_{DSS}=500V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.19 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



Switching applications

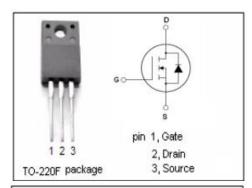


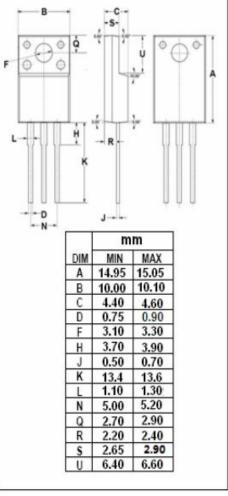
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	500	V
V_{GSS}	Gate-Source Voltage	±20 V	
I _D	Drain Current-Continuous @Tc=25℃ (V _{GS} at 10V) Tc=100℃	20.2 12.7	Α
Ірм	Drain Current-Single Pulsed	57	Α
P_D	Total Dissipation @Tc=25°C	151	W
Tj	Max. Operating Junction Temperature	-55~150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.7	°C/W
Rth(ch-a)	Rth(ch-a) Channel-to-ambient thermal resistance		°C/W





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• ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	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 =0.63mA	3.5	4	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =7.6A		0.171	0.19	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;Tj=25°C V _{DS} = 600V; V _{GS} = 0V; Tj=150°C		10	1	μА
V _{SDF}	Diode forward voltage	I _{SD} =9.5A, V _{GS} = 0 V		0.9		V

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