

isc N-Channel MOSFET Transistor

IPA60R160C6

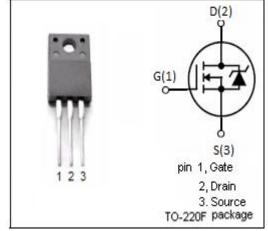
FEATURES

- · With TO-220F packaging
- High speed switching
- · Very high commutation ruggedness
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operationz



APPLICATIONS

· Switching applications

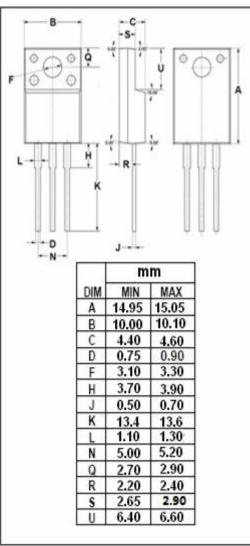


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous@ T_c =25°C T_c =100°C	23.8 15	А
I _{DM}	Drain Current-Single Pulsed	70	Α
P _D	Total Dissipation	34	W
Tj	Operating Junction Temperature	-55~150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	3.67	°C/W	
Rth(ch-a) Channel-to-ambient thermal resistance		80	°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} =±20V; I _D =0.75mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =11.3A		140	160	mΩ
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 _{SDF}	Diode forward voltage	I _{SD} =11.3A, V _{GS} = 0 V		0.9		V

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