

isc N-Channel MOSFET Transistor

IPA95R450P7

FEATURES

- Drain Current : I_D= 14A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 950V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 0.45 Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

 motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
PARAMETER VALUE		UNIT				
Drain-Source Voltage	950	V				
Gate-Source Voltage-Continuous	±30	V				
Drain Current-Continuous	14	A				
Drain Current-Single Pluse 43		A				
Total Dissipation @Tc=25°C 30		W				
Max. Operating Junction Temperature	-55~150	°C				
Storage Temperature -55~150		°C				
	PARAMETER Drain-Source Voltage Gate-Source Voltage-Continuous Drain Current-Continuous Drain Current-Single Pluse Total Dissipation @Tc=25°C Max. Operating Junction Temperature	PARAMETERVALUEDrain-Source Voltage950Gate-Source Voltage-Continuous±30Drain Current-Continuous14Drain Current-Single Pluse43Total Dissipation @Tc=25°C30Max. Operating Junction Temperature-55~150				

PARAMETER

Thermal Resistance, Junction to Case

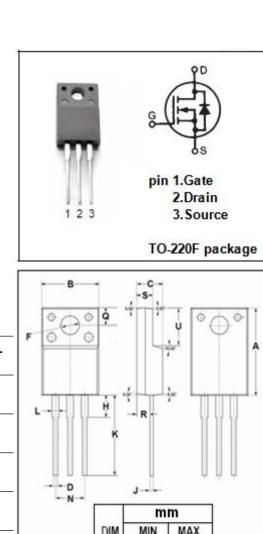
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

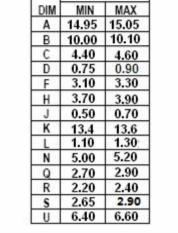
THERMAL CHARACTERISTICS

SYMBOL

Rth j-c

isc website: www.iscsemi.com ¹ isc &





isc & iscsemi is registered trademark

MAX

4.1

UNIT

°C/W



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1.0mA	950		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	2.5	3.5	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 7.2A		0.45	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±1.0	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 950V; V _{GS} = 0		1.0	uA
V _{SD}	Forward On-Voltage	I _S = 7.2A; V _{GS} = 0		1.5	V

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