

isc N-Channel MOSFET Transistor

IRF1324, IIRF1324

• FEATURES

- Static drain-source on-resistance:
 $R_{DS(on)} \leq 1.5m\Omega$
- Enhancement mode:
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRIPTION

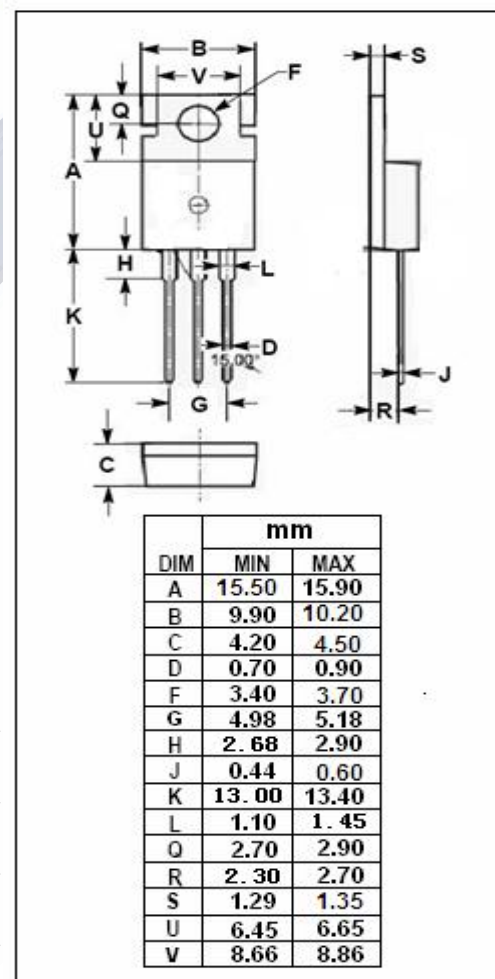
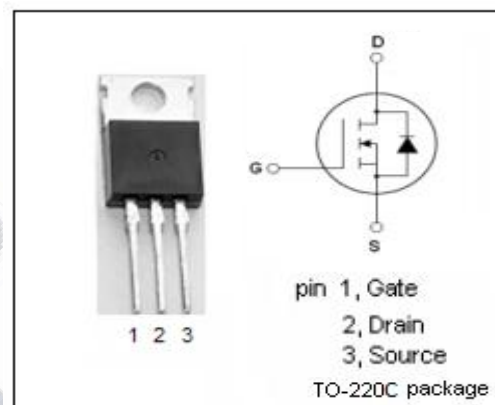
- reliable device for use in a wide variety of applications

• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DS}	Drain-Source Voltage	24	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	195	A
I_{DM}	Drain Current-Single Pulsed	1412	A
P_D	Total Dissipation @ $T_c=25^\circ C$	300	W
T_j	Max. Operating Junction Temperature	175	$^\circ C$
T_{stg}	Storage Temperature	-55~175	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	0.50	$^\circ C/W$
$R_{th(ch-a)}$	Channel-to-ambient thermal resistance	62	$^\circ C/W$



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0V$; $I_D = 250\mu A$	24			V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D=250\mu A$	2.0		4.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10V$; $I_D=195A$			1.5	$m\Omega$
I_{GSS}	Gate-Source Leakage Current	$V_{GS}=\pm 20V$			± 0.2	μA
I_{DSS}	Drain-Source Leakage Current	$V_{DS}=24V$; $V_{GS}=0V$			20	μA
V_{SD}	Diode forward voltage	$I_S=195A$, $V_{GS}=0V$			1.3	V