

isc N-Channel MOSFET Transistor

IRF832

DESCRIPTION

- Drain Current $-I_D = 4.0A @ T_C = 25^{\circ}C$
- Drain Source Voltage-
: $V_{DSS} = 500V (Min)$
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 2.0 \Omega (Max)$
- Fast Switching Speed
- Simple Drive Requirements

APPLICATIONS

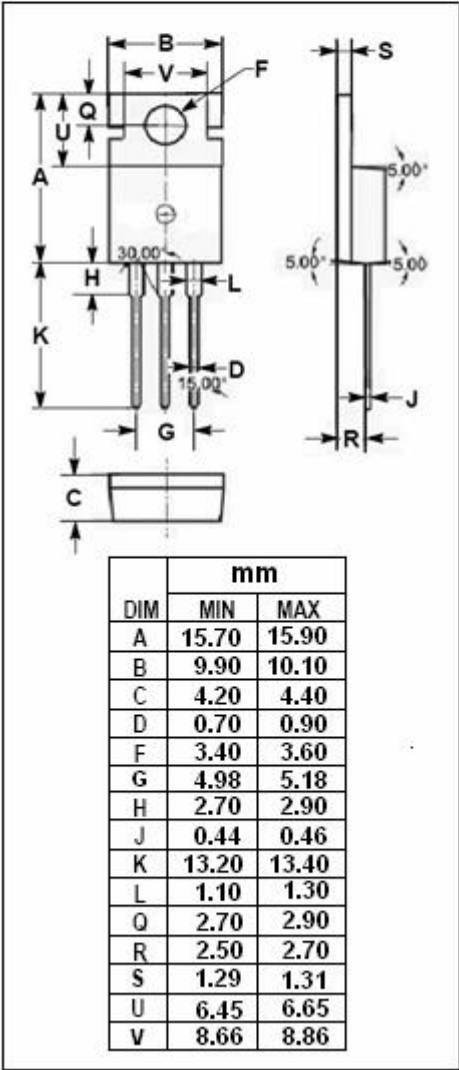
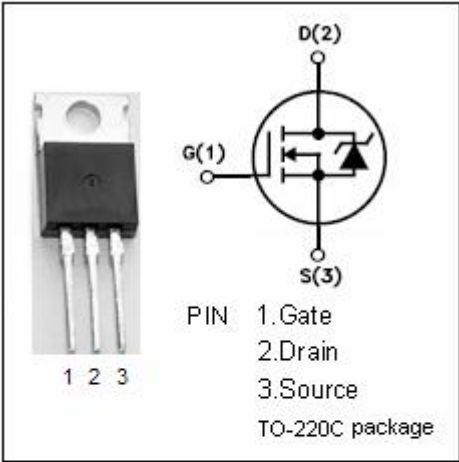
- Desinged for high efficiency switch mode power supply.

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

SYMBOL	ARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS} = 0$)	500	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-continuous@ $T_C = 25^{\circ}C$	4.0	A
P_D	Power Dissipation@ $T_C = 25^{\circ}C$	75	W
T_j	Max. Operating Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.67	$^{\circ}C/W$
$R_{th j-a}$	Thermal Resistance, Junction to Ambient	80	$^{\circ}C/W$



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SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	500		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2	4	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 2.5A		2.0	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0		±500	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} = 0		250	uA
V _{SD}	Diode Forward Voltage	I _F = 4.5A; V _{GS} = 0		1.6	V