

isc N-Channel MOSFET Transistor
IRLZ24NS
• FEATURES

- With TO-263(D² PAK) packaging
- High speed switching
- Low gate input resistance
- Standard level gate drive
- Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

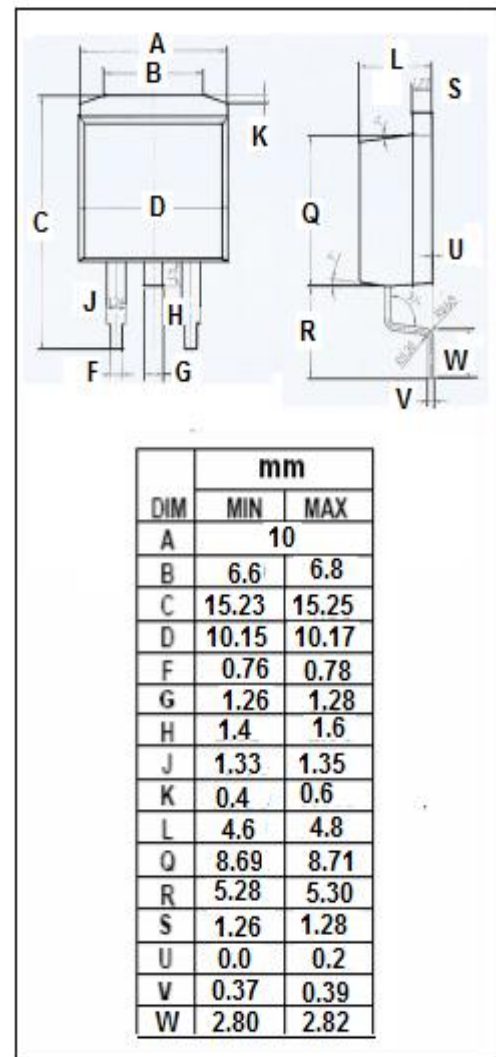
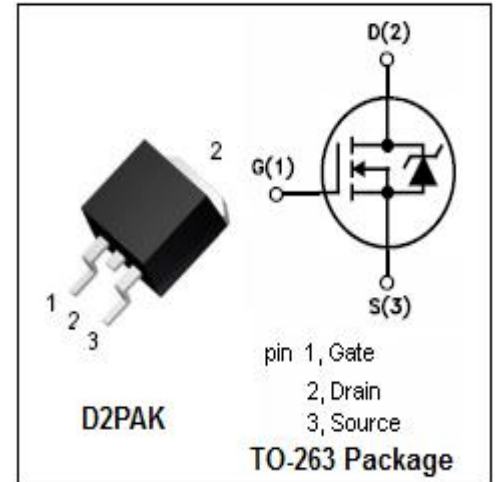
- Power supply
- Switching applications

• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	55	V
V _{GS}	Gate-Source Voltage	±16	V
I _D	Drain Current-Continuous	18	A
P _D	Total Dissipation @T _C =25°C	45	W
T _J	Max. Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Channel-to-case thermal resistance	3.3	°C/W



Isc N-Channel MOSFET Transistor**IRLZ24NS****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0V; I_D=250\ \mu\text{A}$	55			V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}; I_D=250\ \mu\text{A}$	1		2	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10V; I_D=11A$			60	$m\Omega$
I_{GSS}	Gate-Source Leakage Current	$V_{GS}=\pm 16V; V_{DS}=0V$			± 100	nA
I_{DSS}	Drain-Source Leakage Current	$V_{DS}=55V; V_{GS}=0V$			25	μA
V_{SD}	Diode forward voltage	$I_s=11A, V_{GS}=0V$			1.3	V

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