

isc P-Channel MOSFET Transistor

IRLU9343

• FEATURES

- Static drain-source on-resistance:
 $R_{DS(on)} \leq 105m\Omega$
- 175°C Operating Junction Temperature
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

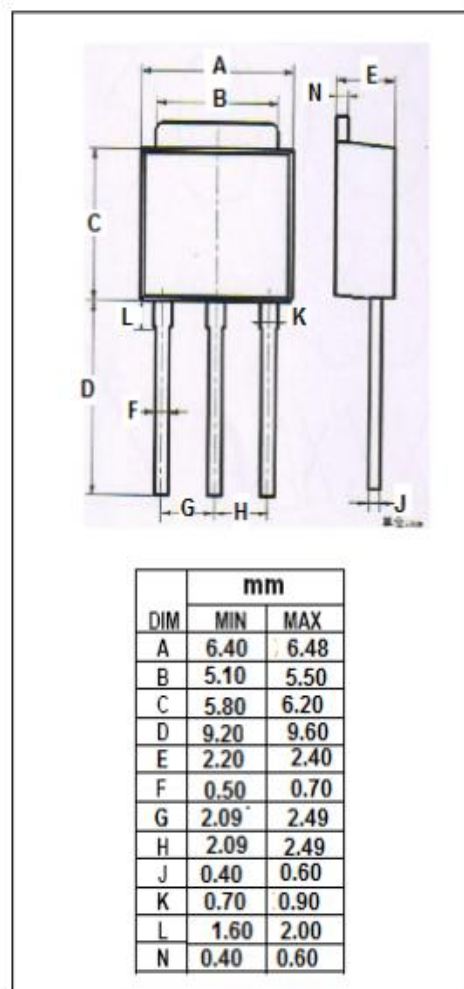
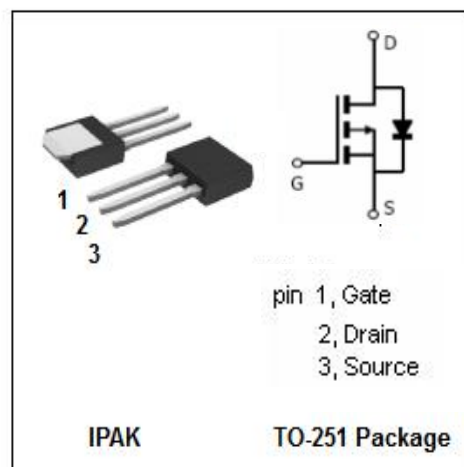
- Audio amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DS}	Drain-Source Voltage	-55	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	-20	A
I_{DM}	Drain Current-Single Pulsed	-60	A
P_D	Total Dissipation @ $T_c=25^\circ\text{C}$	79	W
T_j T_{stg}	Operating Junction And Storage Temperature	-40~175	$^\circ\text{C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Channel-to-case thermal resistance	1.9	$^\circ\text{C/W}$



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• ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0V$; $I_D = -0.25mA$	-55		V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D = -0.25mA$	-1.0		V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS} = -10V$; $I_D = -3.4A$		105	$m\Omega$
I_{GSS}	Gate-Source Leakage Current	$V_{GS} = \pm 20V$		± 10	μA
I_{DSS}	Drain-Source Leakage Current	$V_{DS} = -55V$; $V_{GS} = 0V$		-2	μA
V_{SD}	Diode forward voltage	$I_S = -14A$, $V_{GS} = 0V$		-1.2	V

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