

isc P-Channel MOSFET Transistor

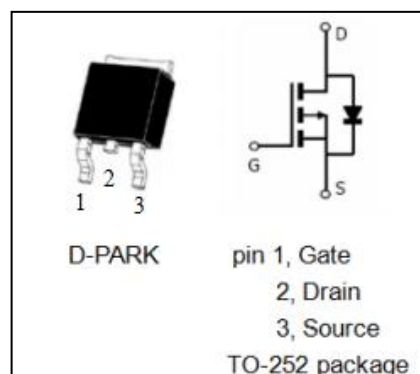
IRLR9343

• FEATURES

- Static drain-source on-resistance:
 $R_{DS(on)} \leq 105\text{m}\Omega$
- 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_{DSS}	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	$^\circ\text{C/W}$

• ELECTRICAL CHARACTERISTICS

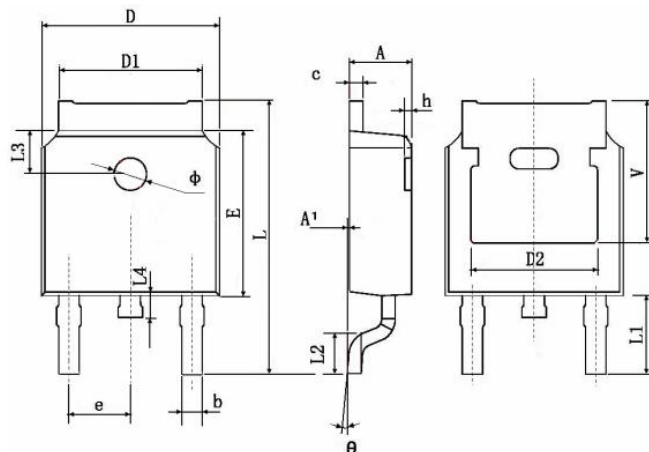
 $T_c=25^\circ\text{C}$ unless otherwise specified

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

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TO-252 Package Outline



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
b	0.660	0.860	0.026	0.034
c	0.460	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2	4.830 TYP.		0.190 TYP.	
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.800	10.400	0.386	0.409
L1	2.900 TYP.		0.114 TYP.	
L2	1.400	1.700	0.055	0.067
L3	1.600 TYP.		0.063 TYP.	
L4	0.600	1.000	0.024	0.039
Φ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.350 TYP.		0.211 TYP.	

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