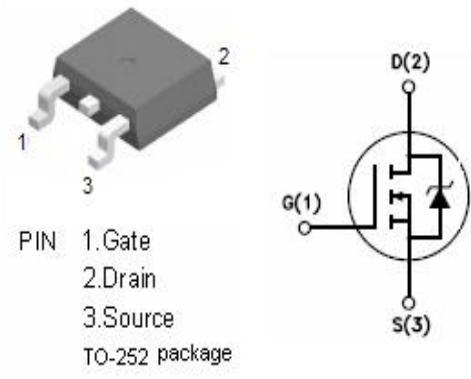


## isc N-Channel MOSFET Transistor

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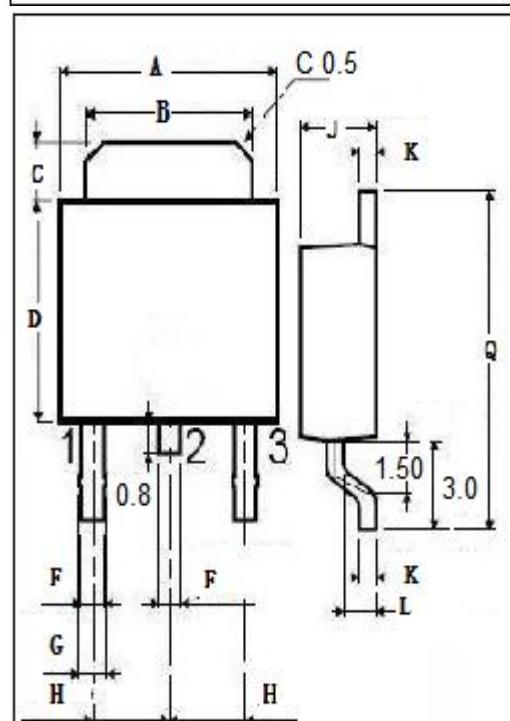
## • FEATURES

- With TO-252(DPAK) packaging
- High speed switching
- Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



## • APPLICATIONS

- Power supply
- Load switching
- General purpose applications
- Switching applications



DIM	mm	
	MIN	MAX
A	6.40	6.60
B	5.20	5.40
C	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
H	2.10	2.50
J	2.10	2.40
K	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

## • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th(ch-c)</sub>	Channel-to-case thermal resistance	1.0	°C/W
R <sub>th(ch-a)</sub>	Channel-to-ambient thermal resistance	40	°C/W

## isc N-Channel MOSFET Transistor

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## ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$\text{BV}_{\text{DSS}}$	Drain-Source Breakdown Voltage	$\text{V}_{\text{GS}}=0\text{V}; \text{I}_D= 0.25\text{mA}$	100			V
$\text{V}_{\text{GS}(\text{th})}$	Gate Threshold Voltage	$\text{V}_{\text{DS}}=\pm 25\text{V}; \text{I}_D=0.25\text{mA}$	2.8		4.0	V
$\text{R}_{\text{DS}(\text{on})}$	Drain-Source On-Resistance	$\text{V}_{\text{GS}}= 10\text{V}; \text{I}_D=1.5\text{A}; \text{Tj}=25^\circ\text{C}$ $\text{Tj}=125^\circ\text{C}$		16.7 31.4	21 38	$\text{m}\Omega$
$\text{I}_{\text{GSS}}$	Gate-Source Leakage Current	$\text{V}_{\text{GS}}= \pm 25\text{V}; \text{V}_{\text{DS}}= 0\text{V}$			$\pm 0.1$	$\mu\text{A}$
$\text{I}_{\text{DSS}}$	Drain-Source Leakage Current	$\text{V}_{\text{DS}}= 100\text{V}; \text{V}_{\text{GS}}= 0\text{V}; \text{Tj}=25^\circ\text{C}$ $\text{Tj}=125^\circ\text{C}$			10 50	$\mu\text{A}$
$\text{V}_{\text{SDF}}$	Diode forward voltage	$\text{I}_{\text{SD}}=1\text{A}, \text{V}_{\text{GS}} = 0 \text{ V}$			1.0	V

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