

**isc N-Channel MOSFET Transistor**
**AOD8N25**
**FEATURES**

- Drain Current  $-I_D = 8.0A @ T_C = 25^\circ C$
- Drain Source Voltage-  
:  $V_{DSS} = 250V(\text{Min})$
- Static Drain-Source On-Resistance  
:  $R_{DS(on)} = 0.56 \Omega (\text{Max})$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**DESCRIPTION**

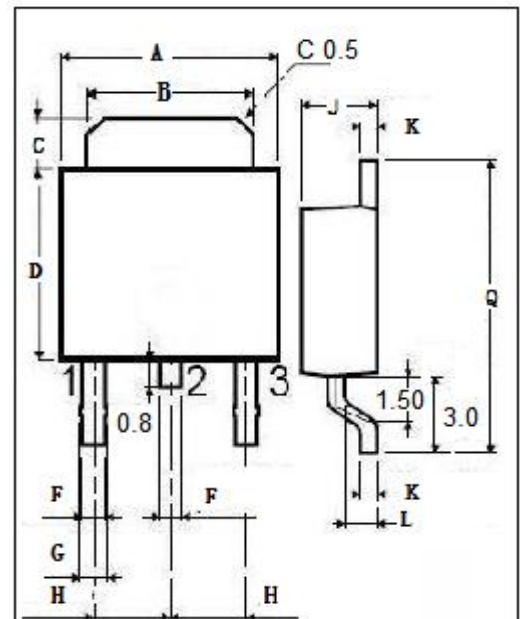
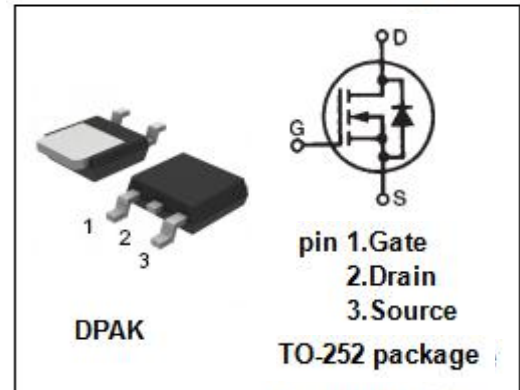
- Designed for use in switch mode power supplies and general purpose applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage	250	V
$V_{GS}$	Gate-Source Voltage-Continuous	$\pm 30$	V
$I_D$	Drain Current-Continuous	8.0	A
$I_{DM}$	Drain Current-Single Pluse	16	A
$P_D$	Total Dissipation @ $T_C = 25^\circ C$	78	W
$T_J$	Max. Operating Junction Temperature	-50~150	$^\circ C$
$T_{stg}$	Storage Temperature	-50~150	$^\circ C$

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Thermal Resistance, Junction to Case	1.6	$^\circ C/W$



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

## isc N-Channel MOSFET Transistor

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## ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0; I_D=0.25\text{mA}$	250		V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}; I_D=0.25\text{mA}$	3.1	4.3	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10\text{V}; I_D=1.5\text{A}$		0.56	$\Omega$
$I_{GSS}$	Gate-Body Leakage Current	$V_{GS}=\pm 30\text{V}; V_{DS}=0$		$\pm 100$	nA
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS}=250\text{V}; V_{GS}=0$ $V_{DS}=200\text{V}; V_{GS}=0@T_J=125^\circ\text{C}$		1 10	$\mu\text{A}$
$V_{SD}$	Forward On-Voltage	$I_S=1\text{A}; V_{GS}=0$		1.0	V

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