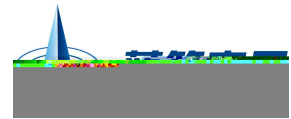


| A | 2022.2.12 | ALL | AOS-AOD294A | | |
|---|-----------|-----|-------------|--|--|
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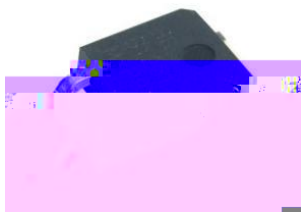
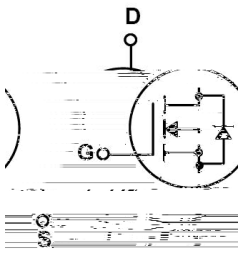


TO-252 N
N-CHANNEL MOSFET in a TO-252 Plastic Package.

$R_{DS(on)}$ C_{rss}
Low $R_{DS(on)}$, low gate charge, low C_{rss} , fast switching, HF Product.

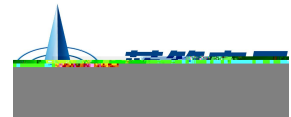
DC/DC

Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products.



PIN 1 G PIN 2 D PIN 3 S PIN 4 D

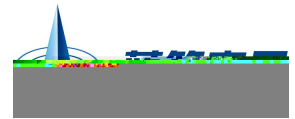
See Marking Instructions.



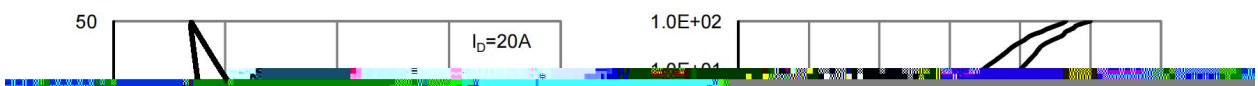
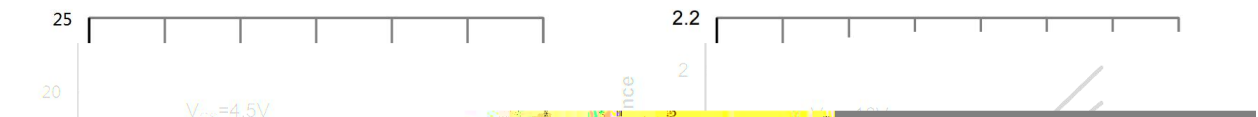
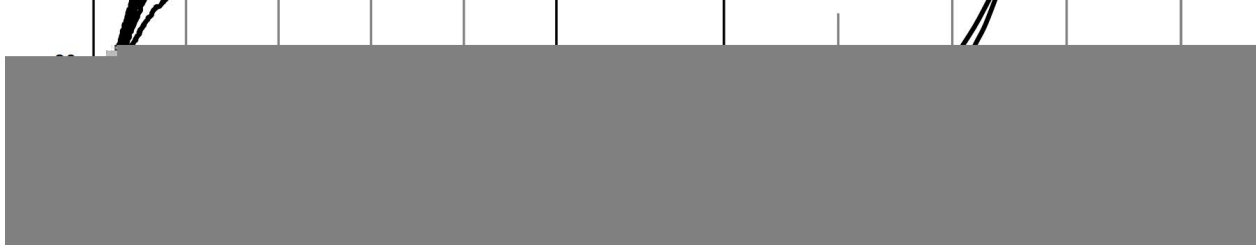
| Parameter | | Symbol | Rating | Unit |
|---|--------------|-----------------------|------------|--------------|
| Drain-Source Voltage | | V_{DSS} | 100 | V |
| Drain Current | | $I_D(T_C=25^\circ C)$ | 55 | A |
| Drain Current - Pulsed | | I_{DM} | 138 | A |
| Gate-Source Voltage | | V_{GS} | ± 20 | V |
| Avalanche Current | | I_{AS} | 7.0 | A |
| Single Pulsed Avalanche Energy(L=0.5mH) | | E_{AS} | 24.5 | mJ |
| Power Dissipation | | $P_D(T_C=25^\circ C)$ | 73 | W |
| Storage Temperature Range | | T_{stg} | -55 to 150 | $^\circ C$ |
| Thermal Resistance-Junction to Ambient | $t \leq 10s$ | $R_{\theta JA}$ | 20 | $^\circ C/W$ |
| | Steady-State | | 50 | |
| Thermal Resistance-Junction to Case | Steady-State | $R_{\theta JC}$ | 1.7 | |

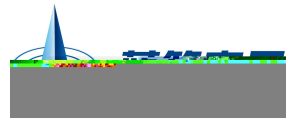
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-----------------------------------|--------------|------------------------------------|-----|-----|-----------|---------|
| Drain-Source Breakdown Voltage | BV_{DSS} | $V_{GS}=0V \quad I_D=250\mu A$ | 100 | 108 | | V |
| Zero Gate Voltage Drain Current | I_{DSS} | $V_{DS}=100V \quad V_{GS}=0V$ | | | 1.0 | μA |
| Gate-Body Leakage Current Forward | I_{GSS} | $V_{GS} \leq 20V \quad V_{DS}=0V$ | | | ± 100 | nA |
| Gate Threshold Voltage | $V_{GS(th)}$ | $V_{DS}=V_{GS} \quad I_D=250\mu A$ | 1.5 | 1.8 | 2.5 | V |

Static Drain-Source On-



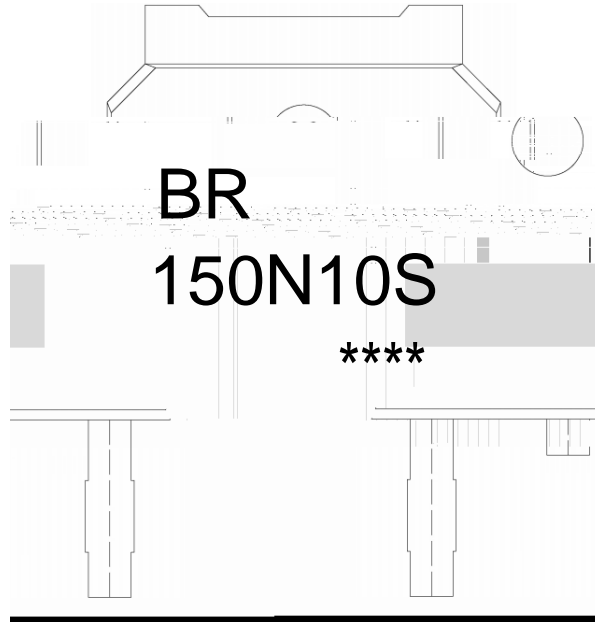
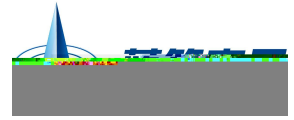
Rev.A Feb.-2022





Rev.A Feb.-2022

http://



BR

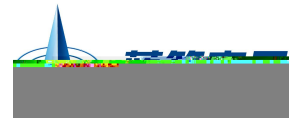
150N10S

Note:

BR: Company Code

150N10S: Product Type Code

****: Lot No. Code, code change with Lot No



Temperature Profile for IR Reflow Soldering(Pb-Free)

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Note:

- | | | | |
|---|-----------|-------------|---|
| 1 | 150 ~ 180 | 60 ~ 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | 2 ~ 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

260±5 10±1 sec. Temp.:260±5℃ Time:10±1 sec

/ REEL

Package Type Units Dimension (unit mm