

isc N-Channel MOSFET Transistor

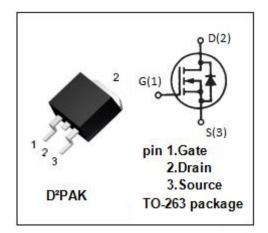
AOB284L

• FEATURES

- Drain Current –I_D= 105A@ T_C=25℃
- · Drain Source Voltage-
 - : V_{DSS}= 80V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 4.3 \text{m} \Omega \text{ (Max)}$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

 Be suitable for synchronous rectification for server and general purpose applications

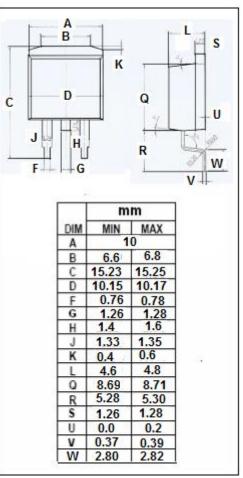


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|---|---------|--------------|
| V_{DSS} | Drain-Source Voltage | 80 | ٧ |
| V _G s | Gate-Source Voltage | ±20 | ٧ |
| I _D | Drain Current-Continuous | 105 | Α |
| I _{DM} | Drain Current-Single Pulsed | 400 | Α |
| P _D | Total Dissipation @T _c =25℃ | 250 | W |
| Тј | Max. Operating Junction Temperature -55~1 | | $^{\circ}$ C |
| T _{stg} | Storage Temperature | -55~175 | ℃ |

• THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|-----------|------------------------------------|-----|------|
| Rth(ch-c) | Channel-to-case thermal resistance | 0.6 | °C/W |





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | MAX | UNIT |
|----------------------|--------------------------------|--|-----|--------|------------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; I _D = 250 μ A | 80 | | V |
| V _{GS} (th) | Gate Threshold Voltage | V _{DS} = V _{GS} ; ID = 250 μ A | 2.3 | 3.3 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D = 20A | | 4.3 | $m\Omega$ |
| I _{GSS} | Gate-Source Leakage Current | V _{GS} = ±20V;V _{DS} = 0V | | ±100 | nA |
| l _{DSS} | Drain-Source Leakage Current | V _{DS} = 80V; V _{GS} = 0V V _{DS} = 80V; V _{GS} = 0V;T _J = 55°C | | 1 5 | μ А |
| V_{SD} | Diode forward voltage | Is= 1A; V _{GS} = 0V | | 1 | V |

NOTICE:

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