ShinDengen

# D2S6M

## Schottky Barrier Diodes
## 60V, 2A

### Feature

- High Recovery Speed
- Low $V_F$
- Pb free terminal
- RoHS:Yes

### OUTLINE

**Package (House Name):** AX078

### Equivalent circuit

### Absolute Maximum Ratings (unless otherwise specified : Tl=25°C)

| Item | Symbol | Conditions | Ratings | Unit |
|---|---|---|---|---|
| Storage temperrature | Tstg | | -40 to 150 | °C |
| Junction temperature | Tj | | 150 | °C |
| Repetitive peak reverse voltage | $V_{RRM}$ | | 60 | V |
| Repetitive peak surge reverse voltage | $V_{RRSM}$ | Pulse width 0.5ms, duty=1/40 | 65 | V |
| Average forward current | $I_F$(AV) | 50Hz sine wave, Resistance load, With heatsink ,Tl=119°C | 2 | A |
| Average forward current | $I_F$(AV) | 50Hz sine wave, Resistance load, With heatsink, Ta=25°C | 1.2 | A |
| Surge forward current | $I_{FSM}$ | 50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C | 60 | A |
| Repetitive peak surge reverse power | $P_{RRSM}$ | Pulse width 10µs, Tj=25°C | 330 | W |

※ ：See the original Specifications



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## Electrical Characteristics (unless otherwise specified : Tl=25°C)

| Item | Symbol | Conditions | Ratings | | | Unit |
|---|---|---|---|---|---|---|
| | | | MIN | TYP | MAX | |
| Forward voltage | $V_F$ | IF=2A, Pulse measurement | | | 0.58 | V |
| Reverse current | $I_R$ | VR=60V, Pulse measurement | | | 2 | mA |
| Total capacitance | Ct | f=1MHz, VR=10V | | 90 | | pF |
| Thermal resistance | Rth(j-l) | Junction to lead | | | 17 | °C/W |
| Thermal resistance | Rth(j-a) | Junction to ambient | | | 105 | °C/W |

※ ：See the original Specifications



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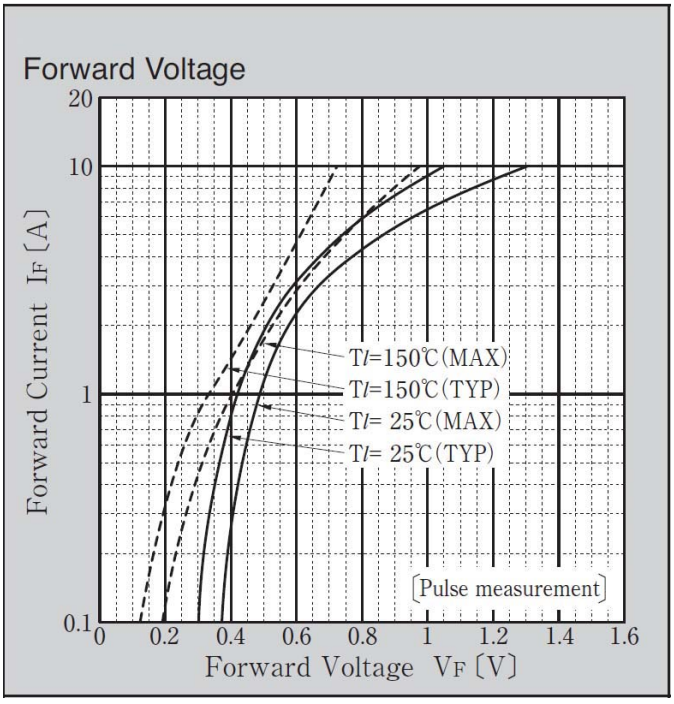
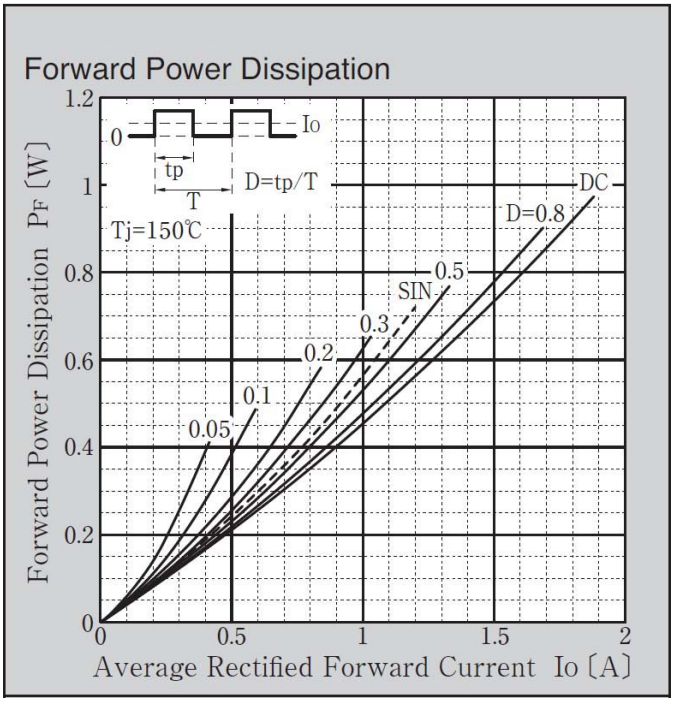
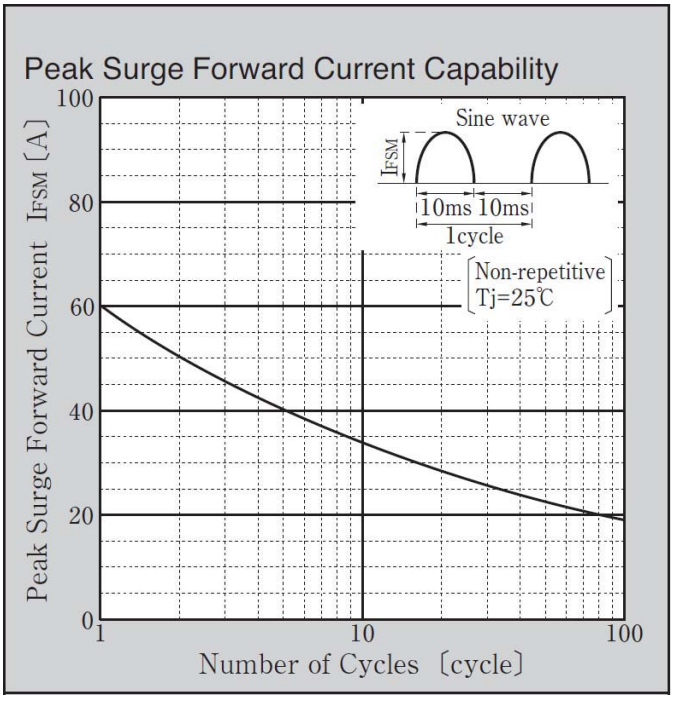
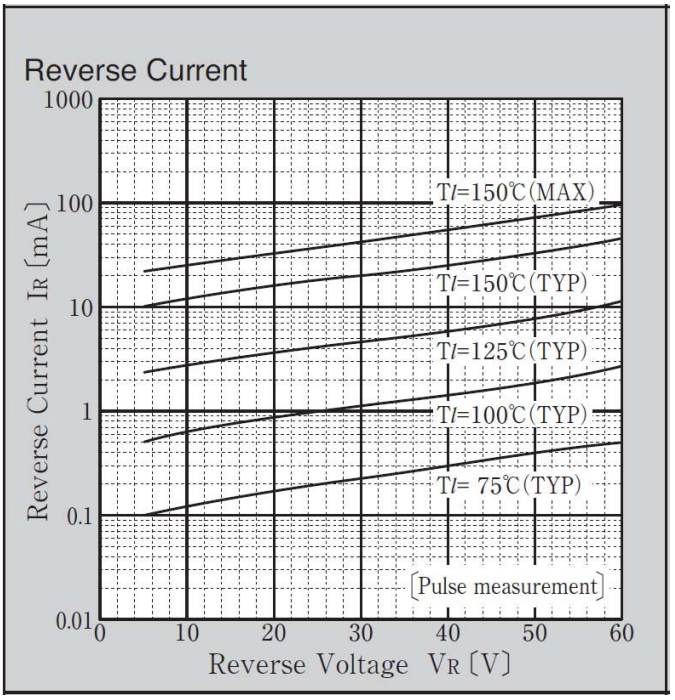
## CHARACTERISTIC DIAGRAMS



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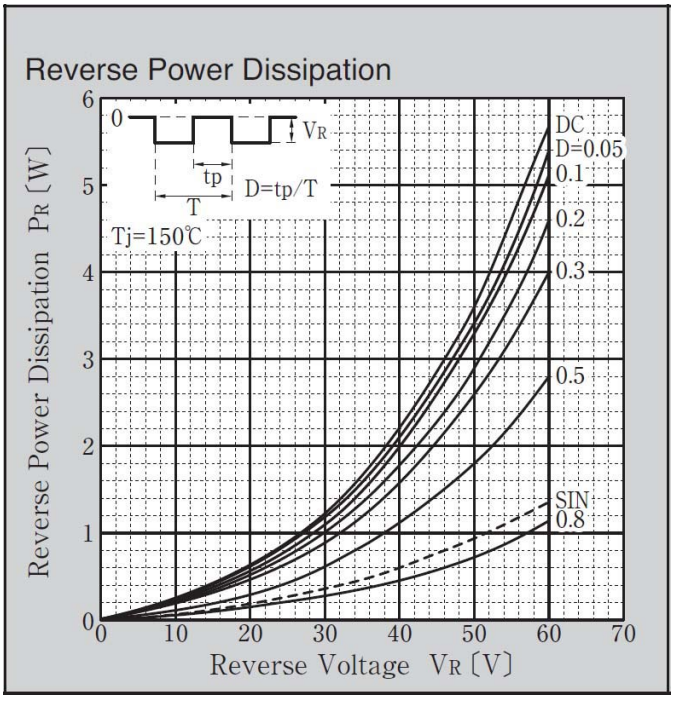


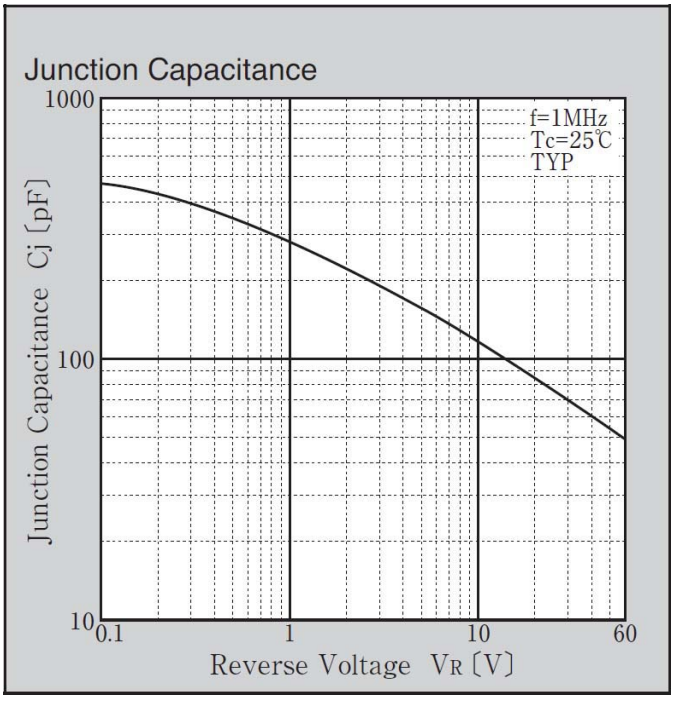


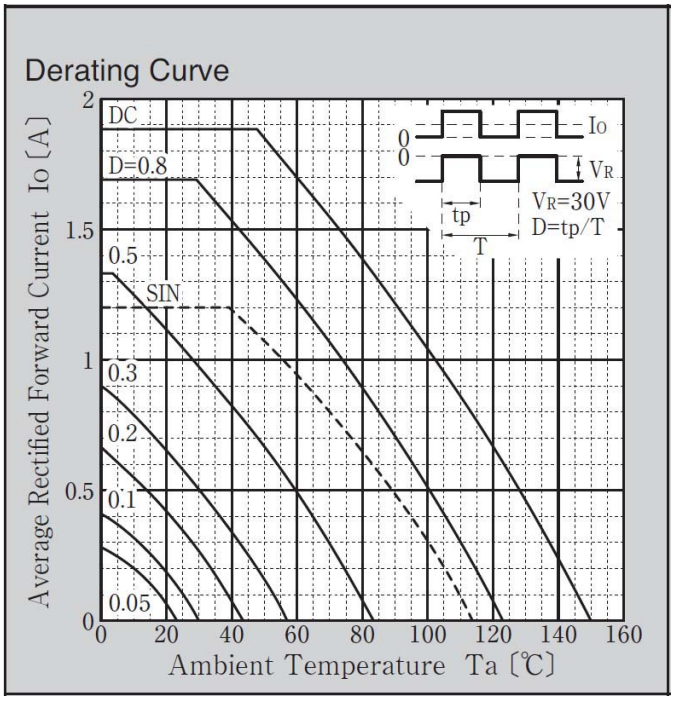


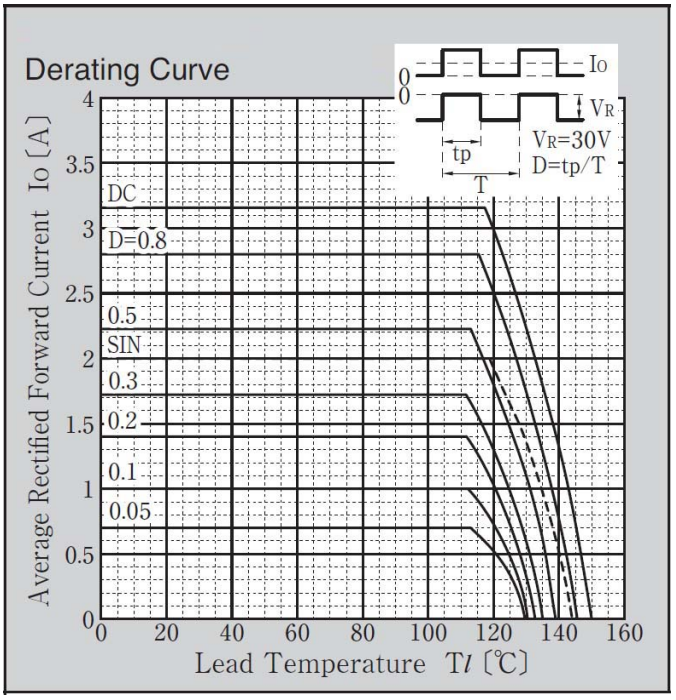




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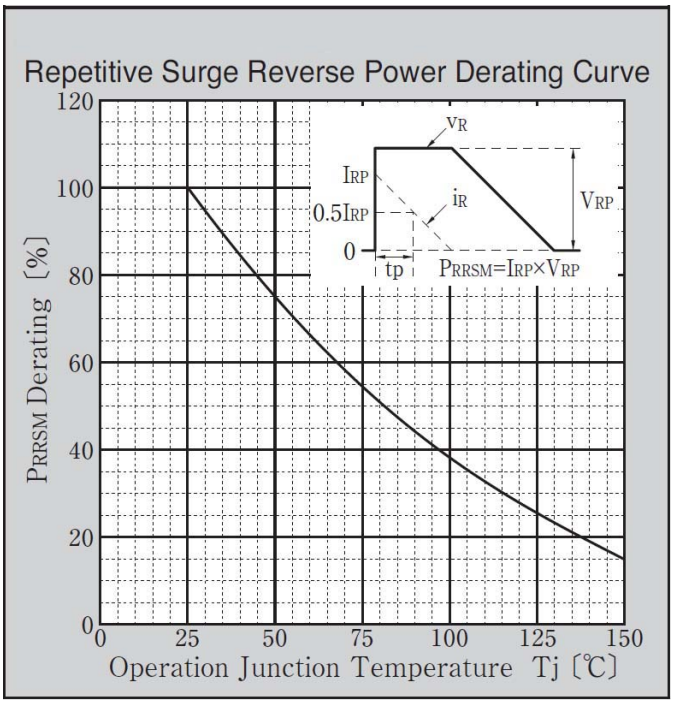


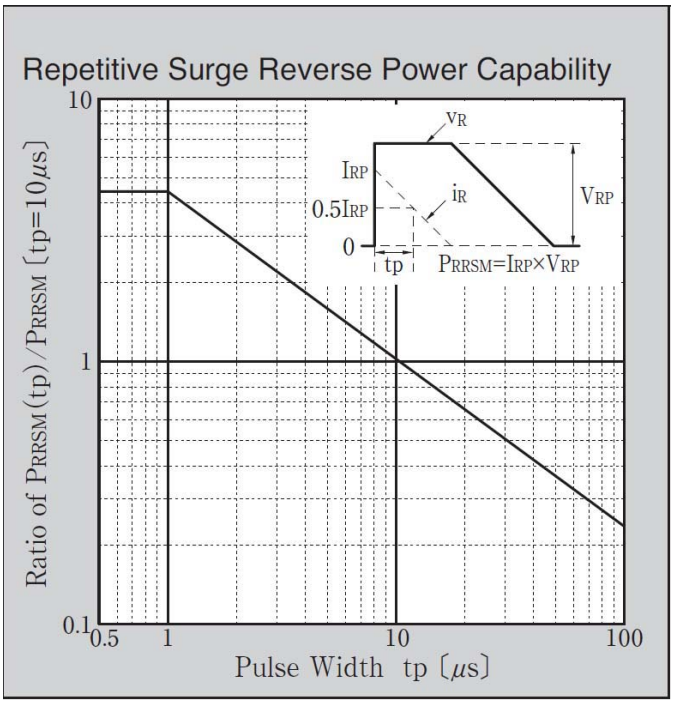




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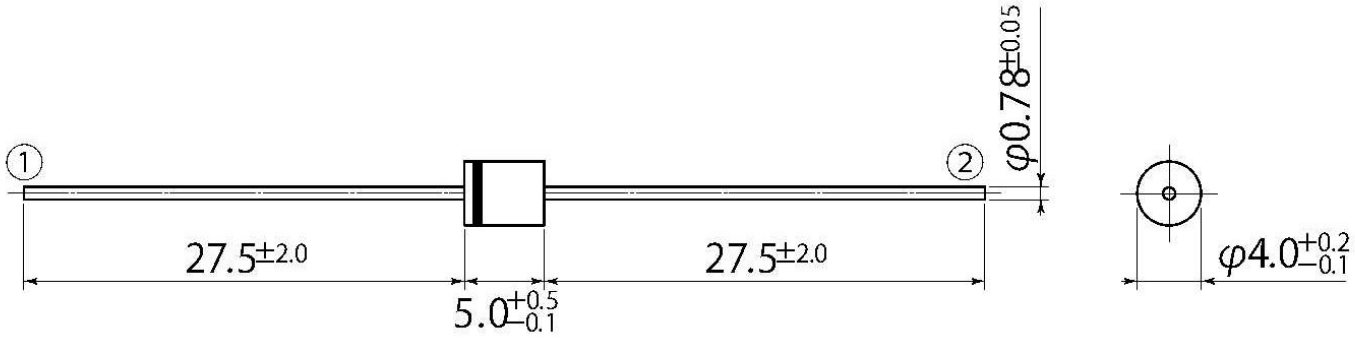
## Outline Dimensions

unit:mm

scale: 2/1

# A4

| | |
|---|---|
| JEDEC Code | – |
| JEITA Code | – |
| House Name | AX078 |



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