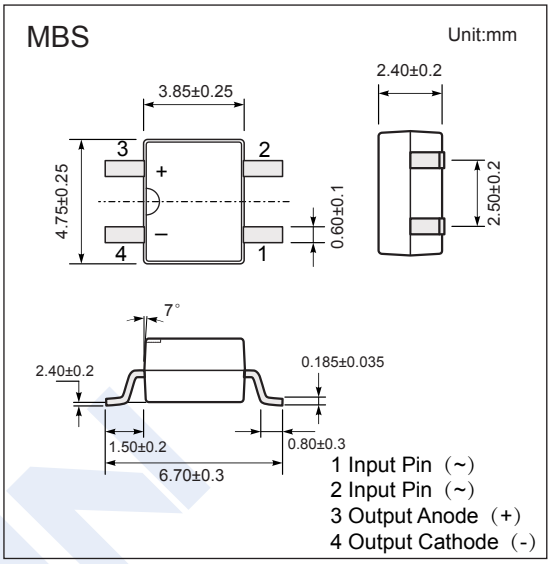
# Schottky Bridge

# XT24S ~ XT220S




## ■ Features

- Reverse Voltage - 40 to 200 V
- Forward Current - 2 A
- High Surge Current Capability
- Designed for Surface Mount Application

## ■ Absolute Maximum Ratings Ta = 25℃

| Parameter | Symbol | XT 24S | XT 26S | XT 28S | XT 210S | XT 220S | Unit |
|---|---|---|---|---|---|---|---|
| Repetitive Peak Reverse Voltage | $V_{RRM}$ | 40 | 60 | 80 | 100 | 200 | V |
| RMS Voltage | $V_{RMS}$ | 28 | 42 | 56 | 70 | 140 | |
| Maximum DC Blocking Voltage | $V_{DC}$ | 40 | 60 | 80 | 100 | 200 | |
| Forward Voltage @ $I_F$=2A | $V_F$ | 0.55 | 0.7 | 0.85 | | | |
| Average Forward Rectified Current | $I_{FAV}$ | 2 | | | | | A |
| Peak Forward Surge Current @ 8.3ms | $I_{FSM}$ | 50 | | 40 | | | |
| Maximum DC Reverse Current Ta=25℃ | $I_R$ | 0.5 | | | 0.3 | | mA |
| Ta=125℃ | | 10 | | | 5 | | |
| Typical Junction Capacitance *1 | Cj | 220 | 80 | | | | pF |
| Thermal Resistance.Junction- to-Ambient | $R_{thJA}$ | 75 | | | | | °C/W |
| Junction Temperature | Tj | 125 | | | | | ℃ |
| Storage Temperature | Tstg | -55 to 150 | | | | | |

* 1 Measured at 1MHz and applied reverse voltage of 4V D.C

## ■ Marking

| NO. | XT24S | XT26S | XT28S | XT210S | XT220S |
|---|---|---|---|---|---|
| Marking | MB24S | MB26S | MB28S | MB210S | MB220S |

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■ Typical Characterisitics

Fig.1 Forward Current Derating Curve

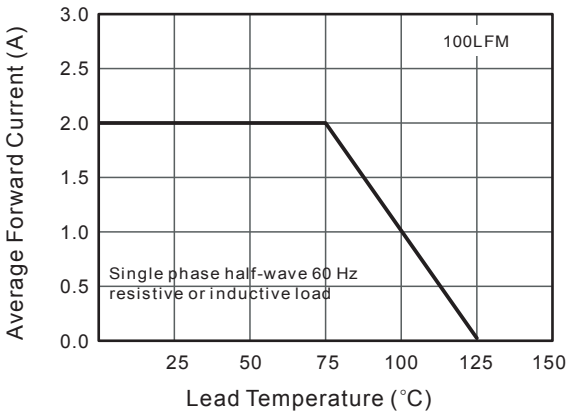



Fig.2 Typical Reverse Characteristics

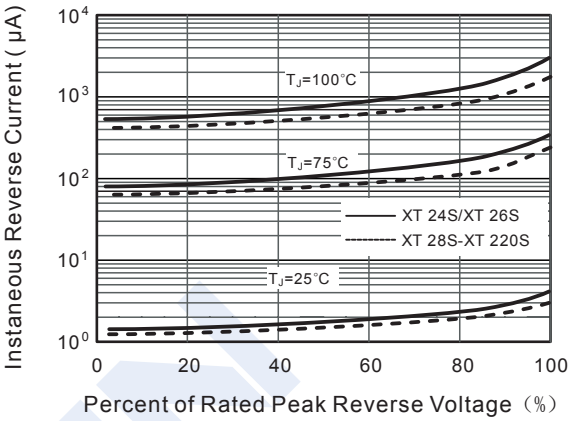



Fig.3 Typical Forward Characteristic

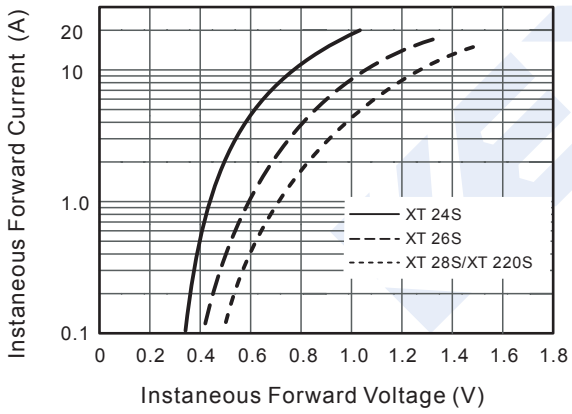



Fig.4 Typical Junction Capacitance

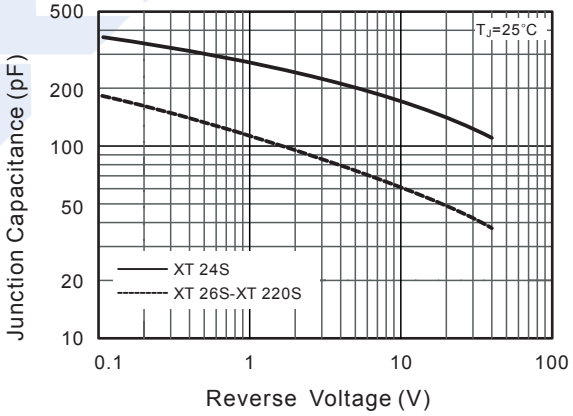
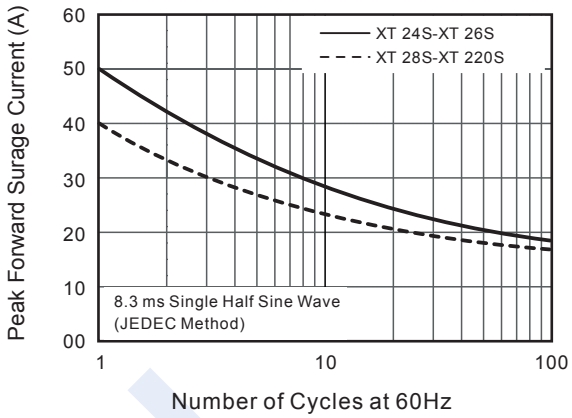



Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



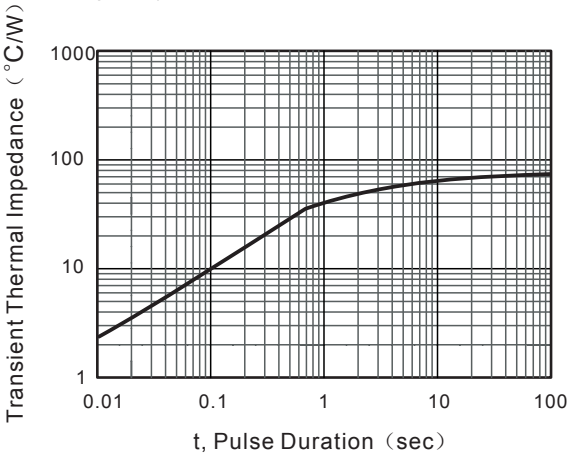


Fig.6- Typical Transient Thermal Impedance