TECH PUBLIC
台舟电子

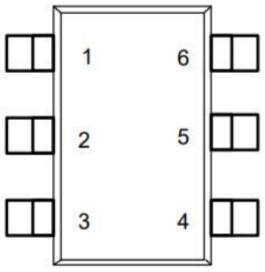
# TPIMN10FH

## SURFACE MOUNT FAST SWITCHING DIODE ARRAY

WWW.TECHPUBLIC.COM

## Features

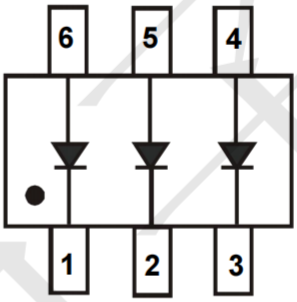
- Repetitive peak forward current
- High switching speed
- Continuous reverse voltage
- Repetitive peak reverse voltage




SOT23-6

## Applications

- High-speed switching
- General-purpose switching
- Polarity protection application
- Freewheeling diodes




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

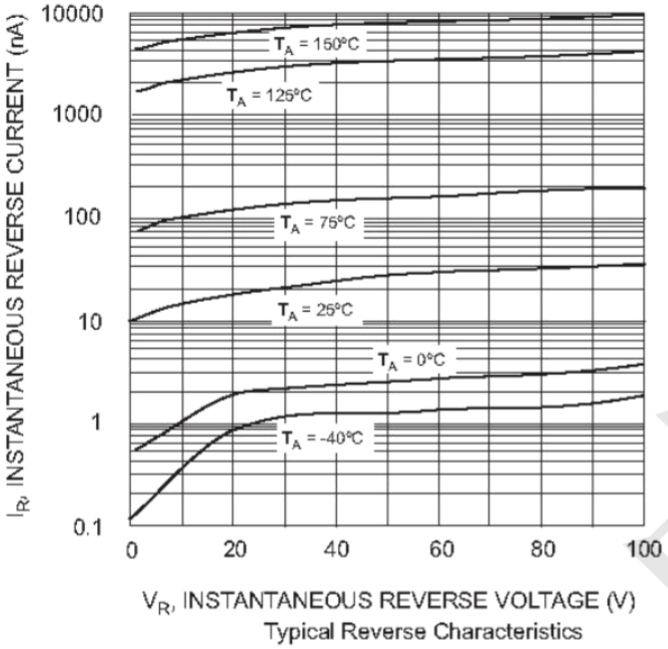
| Symbol | Parameter | Limits | Unit |
|---|---|---|---|
| $V_{RRM}$ | Repetitive Peak Reverse Voltage | 100 | V |
| $V_R$ | Reverse Voltage | 75 | V |
| $I_F$ | Forward Current | 200 | mA |
| $I_{FRM}$ | Repetitive Peak Forward Current | 600 | |
| $I_{FSM}$ | Non-Repetitive Peak Forward Surge Current @ t=1ms | 1.0 | A |
| $P_D$ | Power Dissipation | 350 | mW |
| $R_{\Theta JA}$ | Thermal Resistance from Junction to Ambient | 357 | ℃/W |
| $T_j$ | Junction Temperature | 150 | ℃ |
| $T_{stg}$ | Storage Temperature | -55~+150 | |

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

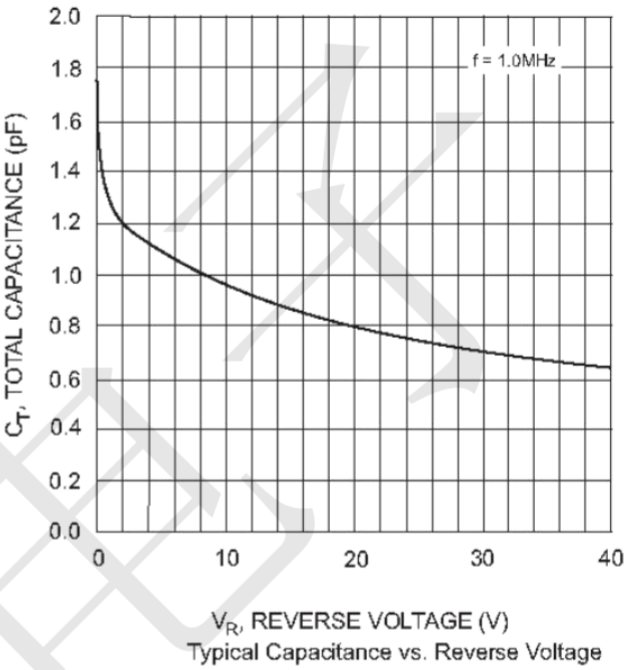
| Parameter | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Reverse Breakdown Voltage | $V_{(BR)R}$ | $I_R$ = 100uA | 100 | -- | -- | **V** |
| | | $I_R$ = 5uA | 75 | -- | -- | **V** |
| Forward Voltage | $V_F$ | $I_F$ = 10mA | -- | -- | 1.0 | **V** |
| Maximum Peak Reverse Current | $I_R$ | $V_R$ = 75V | -- | -- | 5.0 | **uA** |
| Total Capacitance | $C_J$ | $V_R$=0V,f=1MHz | -- | -- | 4.0 | **PF** |
| Maximum reverse recovery time | Trr | IF=IR=10mA,Irr=0.1×IR , RL=100Ω,VR=6V | -- | -- | 4.0 | **ns** |

Note 1: The data tested by surface mounted on a 18mm * 15mm * 1mm FR4-epoxy P.C.B

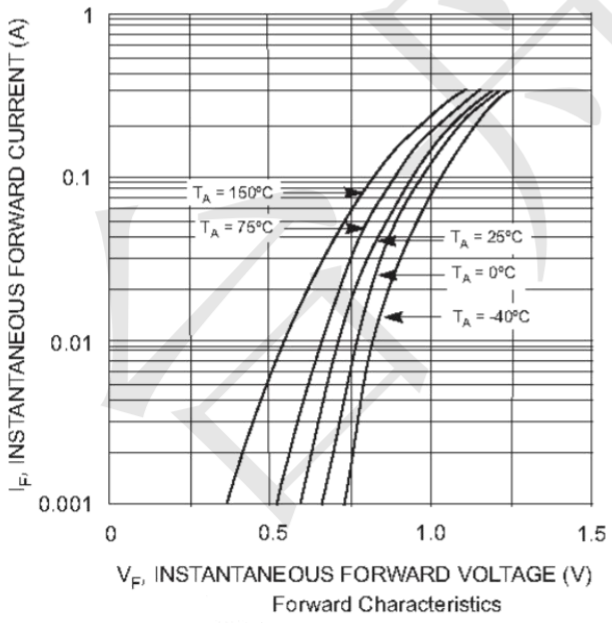
## Typical Electrical Characteristic Curves



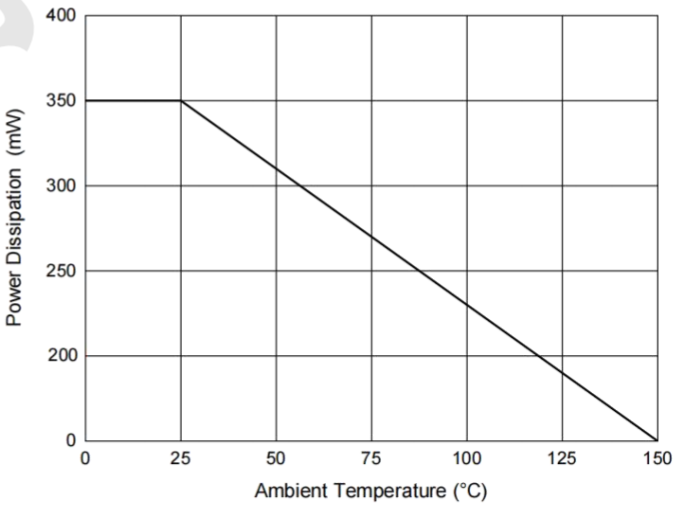
Typical Reverse Characteristics



Typical Capacitance vs. Reverse Voltage



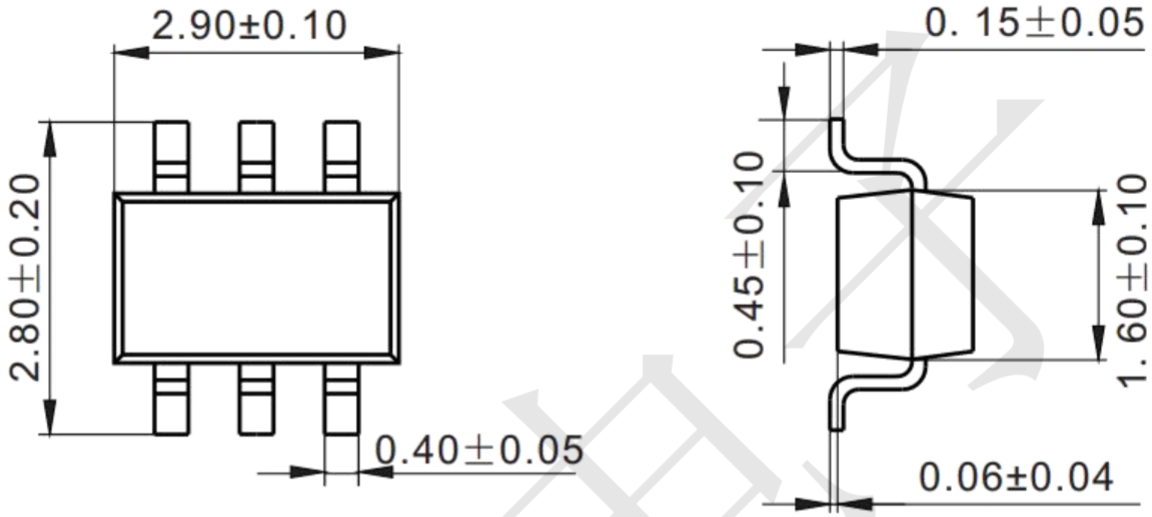
Forward Characteristics

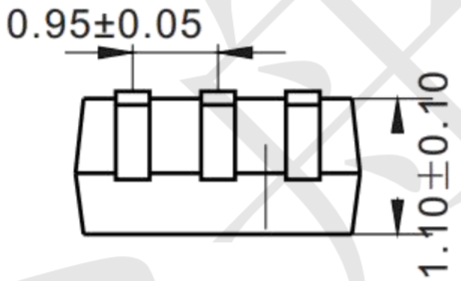


Power Derating Curve

## Package information (Unit: mm)

**SOT23-6**




## Mounting Pad Layout (unit: mm)

