TECH PUBLIC
台舟电子

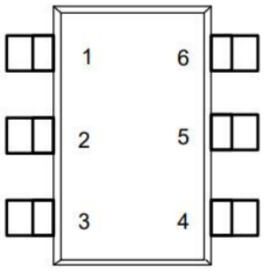
TPIMN10

SURFACE MOUNT FAST SWITCHING DIODE ARRAY

WWW.TECHPUBLIC.COM

Features

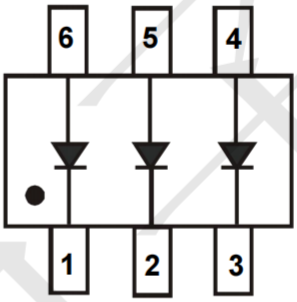
- Repetitive peak forward current
- High switching speed
- Continuous reverse voltage
- Repetitive peak reverse voltage



SOT23-6

Applications

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



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

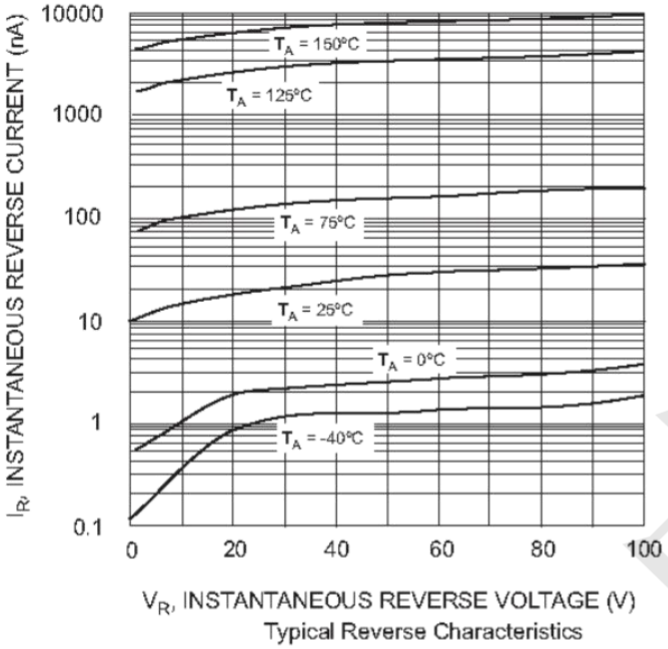
Symbol	Parameter	Limits	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	100	V
V_R	Reverse Voltage	75	V
I_F	Forward Current	200	mA
I_{FRM}	Repetitive Peak Forward Current	600	
I_{FSM}	Non-Repetitive Peak Forward Surge Current @ t=1ms	1.0	A
P_D	Power Dissipation	350	mW
$R_{\Theta JA}$	Thermal Resistance from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

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

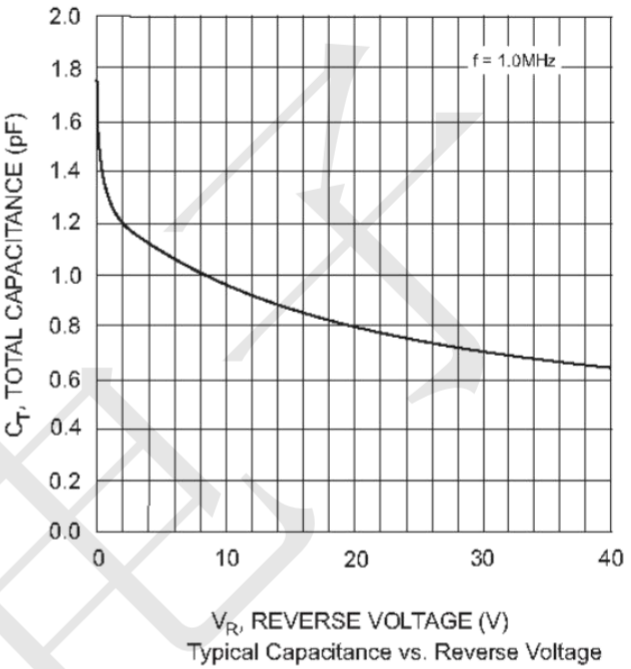
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	I_R = 100uA	100	--	--	**V**
		I_R = 5uA	75	--	--	**V**
Forward Voltage	V_F	I_F = 10mA	--	--	1.0	**V**
Maximum Peak Reverse Current	I_R	V_R = 75V	--	--	5.0	**uA**
Total Capacitance	C_J	V_R=0V,f=1MHz	--	--	4.0	**PF**
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

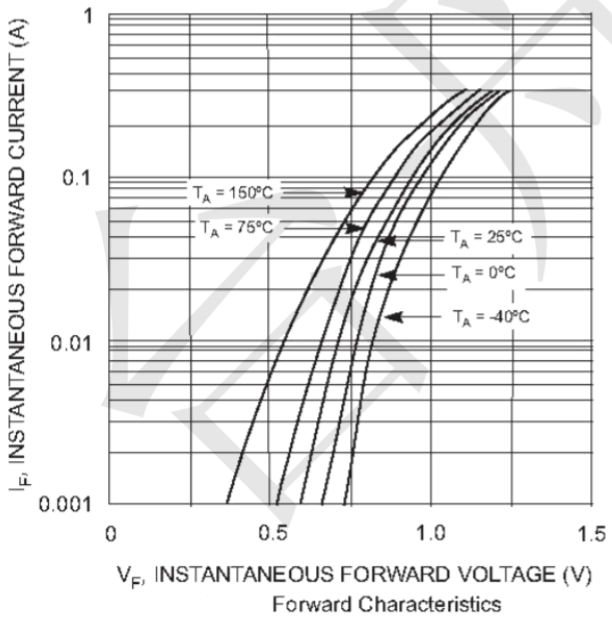
Typical Electrical Characteristic Curves



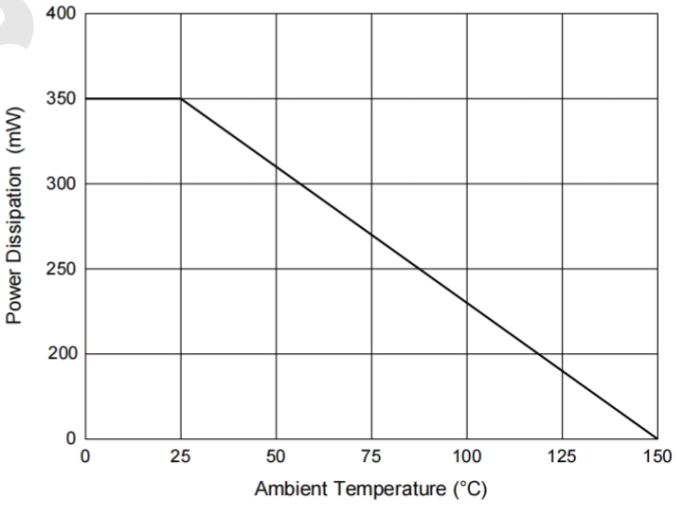
Typical Reverse Characteristics



Typical Capacitance vs. Reverse Voltage



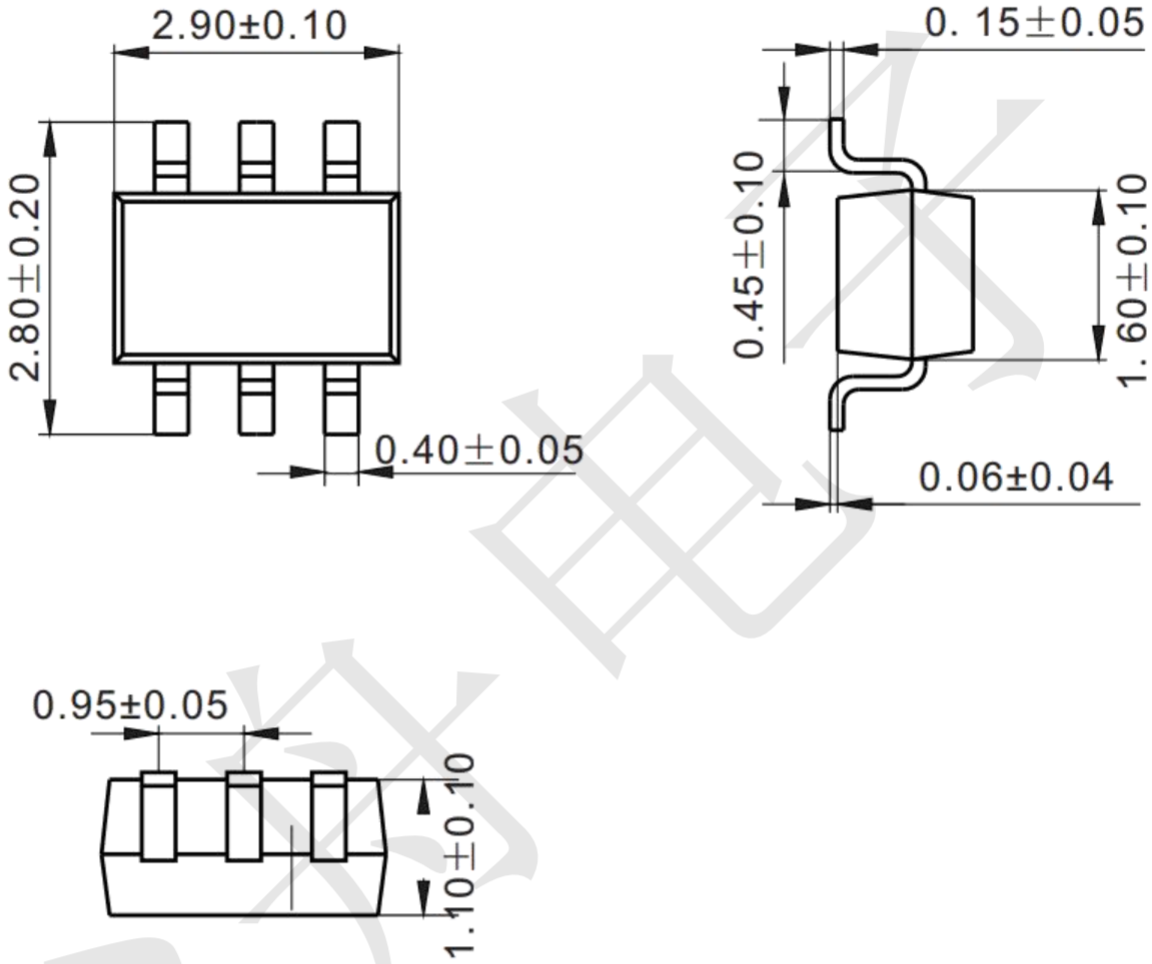
Forward Characteristics



Power Derating Curve

Package information (Unit: mm)

SOT23-6



Mounting Pad Layout (unit: mm)

