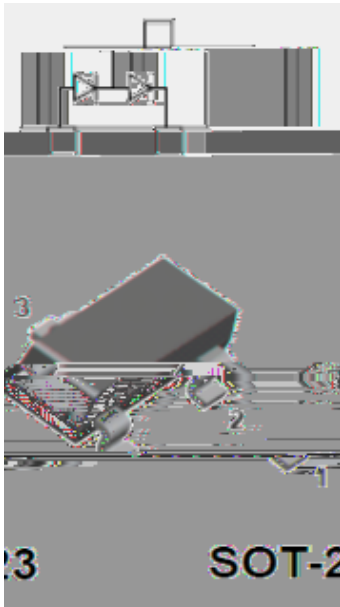




## Dual Switching Diode

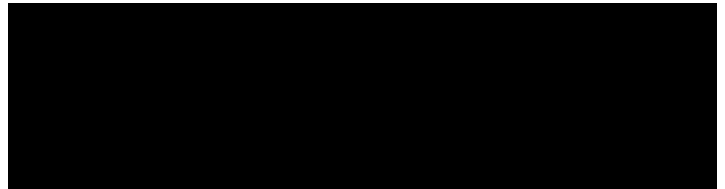


### Features

Moisture sensitivity level 1  
Reverse voltage 80V  
Aver

### Application

Signal switching  
High frequency rectifier



### ■ Maximum Ratings (T<sub>a</sub>=25 Unless otherwise specified)

| Parameter                       | Symbol           | Unit | Value                           |
|---------------------------------|------------------|------|---------------------------------|
| Device marking code             |                  |      | BA1                             |
| Repetitive peak reverse voltage | V <sub>RRM</sub> | V    | urrent @ t=8.3ms half-sine wave |

|                                                               |                  |    |             |
|---------------------------------------------------------------|------------------|----|-------------|
|                                                               | FSM              | A  | 1           |
| Non-repetitive Surge peak forward current @ t=1ms square wave |                  |    | 1           |
| Power dissipation                                             | P <sub>D</sub>   | mW | 200         |
| Junction temperature                                          | T <sub>J</sub>   |    | -55 to +150 |
| Storage temperature                                           | T <sub>STG</sub> |    | -55 to +150 |



# DAN217

**RoHS**  
COMPLIANT

## ■ Electrical Characteristics (T<sub>a</sub>=25 Unless otherwise specified)

| Parameter               | Symbol          | Unit | Conditions                                                                                         | Min | Typ | Max |
|-------------------------|-----------------|------|----------------------------------------------------------------------------------------------------|-----|-----|-----|
| Reverse voltage         | V <sub>R</sub>  | V    | I <sub>R</sub> =100uA                                                                              | 80  |     |     |
| Forward voltage         | V <sub>F</sub>  | V    | I <sub>F</sub> =100mA                                                                              |     |     | 1.2 |
| Reverse leakage current | I <sub>R</sub>  | uA   | V <sub>R</sub> =70V                                                                                |     |     | 0.1 |
| Junction capacitance    | C <sub>j</sub>  | pF   | V <sub>R</sub> =0V,f=1MHz                                                                          |     |     | 2   |
| Reverse recovery time   | T <sub>rr</sub> | ns   | I <sub>F</sub> =I <sub>R</sub> =10mA I <sub>rr</sub> =0.1*I <sub>R</sub> ,<br>R <sub>L</sub> =100Ω |     |     | 4   |

## ■ Thermal Characteristics

| Parameter                               | Symbol                           | Unit | Value |
|-----------------------------------------|----------------------------------|------|-------|
| Thermal resistance, junction-to-ambient | R <sub>θJ-A</sub> <sup>(1)</sup> | /W   | 625   |
| Thermal resistance, junction-to-case    | R <sub>θJ-C</sub> <sup>(1)</sup> | /W   | 500   |

### Note:

- 1 Device mounted on PCB, single-sided copper with standard footprint



■Characteristics

Fig 1 Pb-Ta Curve

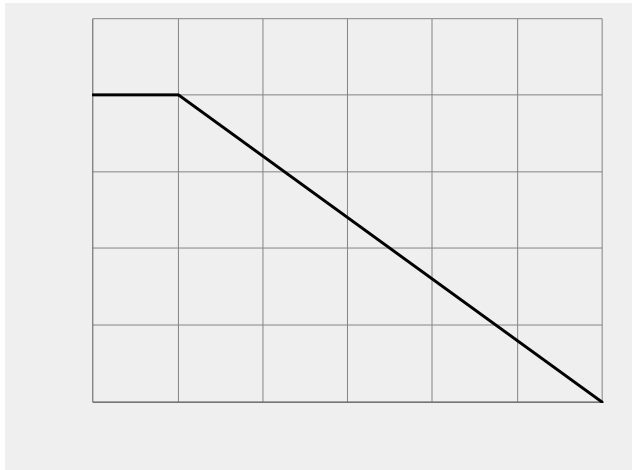


Fig 2 Capacitance Capability

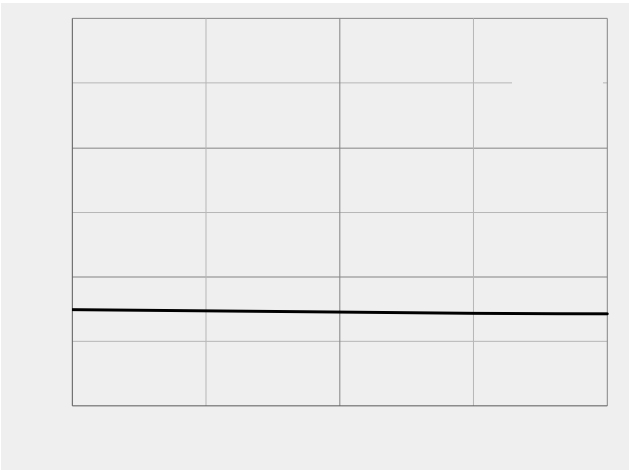


Fig 3 Typical Forward Characteristics

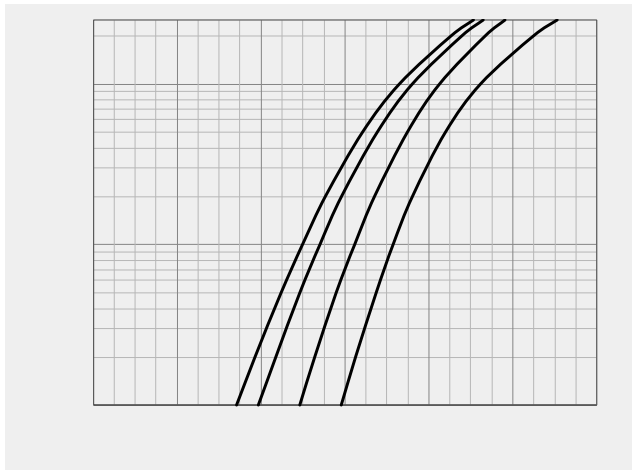
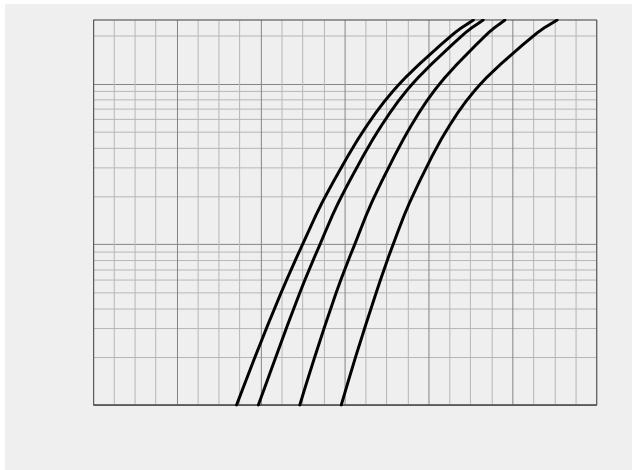


Fig 4 Typical Reverse Characteristics







## Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function, or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website  
[http:// www.21yangjie.com](http://www.21yangjie.com)