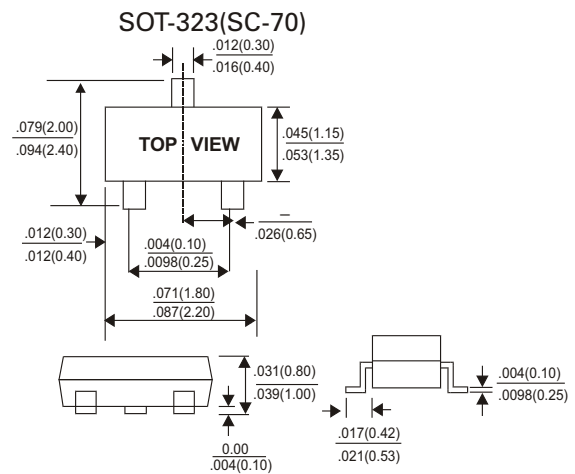


# PSD461F

## SURFACE MOUNT SCHOTTKY BARRIER DIODES

### SMALL SIGNAL SCHOTTKY DIODES 700m AMPERES 20 VOLTS



#### FEATURES

- Low Forward Voltage
- Very Small Conduction Losses
- Schottky Barrier Diodes Encapsulated in a SOT-323 Package

#### APPLICATIONS

Low current rectification

#### MAXIMUM RATING (T<sub>A</sub>=25°C unless otherwise noted)

| CHARACTERISTICS                                  | SYMBOL           | VALUE       | UNITS |
|--------------------------------------------------|------------------|-------------|-------|
| Reverse Voltage                                  | V <sub>R</sub>   | 20          | Volts |
| Average Rectified Forward Current <sup>(1)</sup> | I <sub>O</sub>   | 700         | mA    |
| Peak Forward Surge Current <sup>(1)</sup>        | I <sub>FSM</sub> | 3.0         | A     |
| Power Dissipation @T <sub>A</sub> =25°C          | P <sub>D</sub>   | 150         | mW    |
| Operating Junction Temperature Range             | T <sub>J</sub>   | +150        | °C    |
| Storage Temperature Range                        | T <sub>stg</sub> | -55 to +125 | °C    |

#### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

| CHARACTERISTICS                                  | SYMBOL            | Min | Typ | Max  | UNITS |
|--------------------------------------------------|-------------------|-----|-----|------|-------|
| Reverse Breakdown Voltage I <sub>R</sub> = 1.0mA | V <sub>(BR)</sub> | 20  | —   | —    | Volts |
| Forward Voltage<br>I <sub>F</sub> = 700mA        | V <sub>F</sub>    | —   | —   | 0.49 | Volts |
| Reverse Leakage<br>V <sub>R</sub> = 20V          | I <sub>R</sub>    | —   | —   | 200  | μA    |

NOTE :  
1. 60Hz for 1 ∞

#### Device Marking

| Item    | Equivalent Circuit diagram |
|---------|----------------------------|
| PSD461F | 3 ○ — <— ○ 1               |

# PSD461F

## SURFACE MOUNT SCHOTTKY BARRIER DIODES

### CHARACTERISTICS CURVES PSD461F

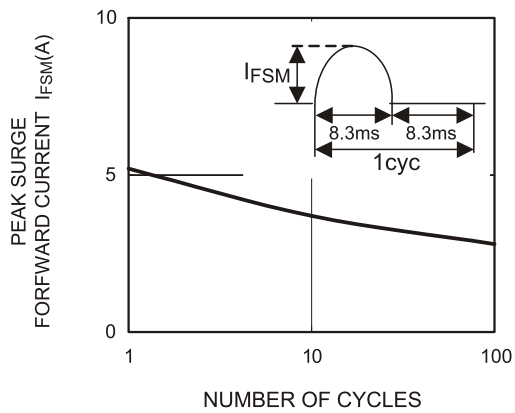


Fig.1 IFSM, CYCLE CHARACTERISTICS

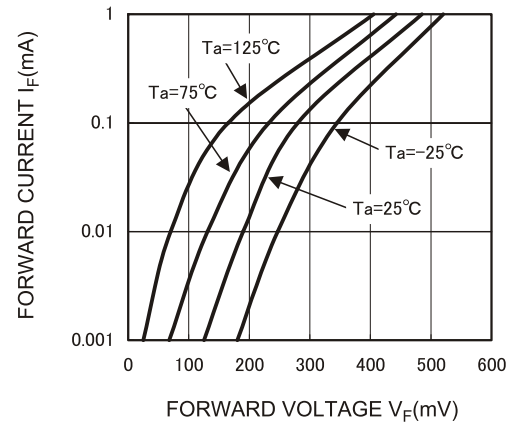


Fig.2 VF-IF CHARACTERISTICS

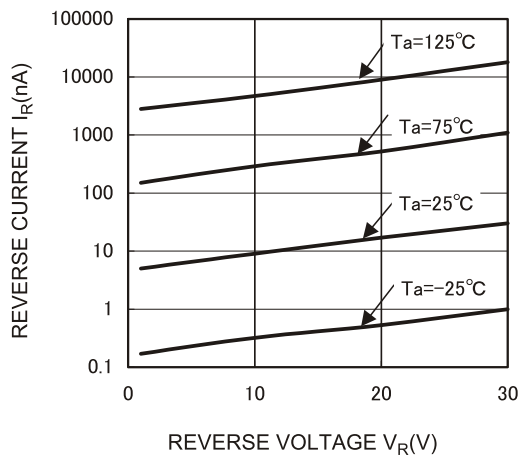


Fig.3 VR-IR CHARACTERISTICS

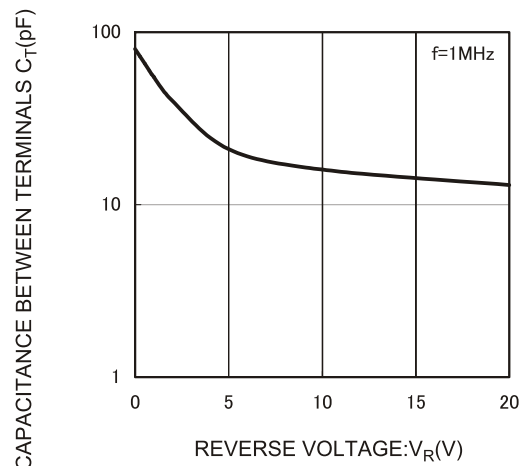


Fig.4 VR-Ct CHARACTERISTICS