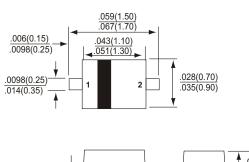
SURFACE MOUNT ZENER DIODES

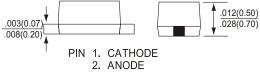
SWITCHING DIODES 100m AMPERES 90 VOLTS







SOD-523



FEATURES

- · Extremely High Switching Speed
- · Low Reverse Leakage Current .
- · High Reliability.
- Small Outline Surface Mount SOD-523 Package

APPLICATIONS

High Speed Switching

MAXIMUM RATING (T_A=25°C unless otherwise noted)

| CHARACTERISTICS | SYMBOL | VALUE | UNITS |
|--------------------------------------|--------------------|-------------|-------|
| Peak Reverse Voltage | V _{RM} | 90 | Volts |
| DC Reverse Voltage | VR | 80 | Volts |
| Average Rectified Forward Current | I _{F(AV)} | 100 | mA |
| Peak Forward Surge Current at=1S | Ifsm | 500 | mA |
| Operating Junction Temperature Range | Tı | 125 | °C |
| Storage Temperature Range | T _{stg} | -40 to +125 | °C |

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

| CHARACTERISTICS | SYMBOL | Min | Max | UNITS |
|---|--------------------|-----|------|-------|
| Reverse Breakdown Voltage ($IR = 100 \mu A$) | V _{(BR)R} | 80 | | Volts |
| Forward Voltage IF = 100mA | VF | | 1.20 | Volts |
| Reverse Leakage $V_R = 80V$ | I _R | | 0.1 | μ Adc |
| Capacitance Between Terminals V _R = 0.5V, f=MHz | Сл | | 3.0 | pF |
| Reverse Voltage Time $V_R = 6V$, $I_F = 10 mA$, $R_L = 100 \Omega$ | Trr | | 4.0 | nS |



1SS400

SURFACE MOUNT ZENER DIODES

Electrical characteristic curves (Ta = 25 °C)

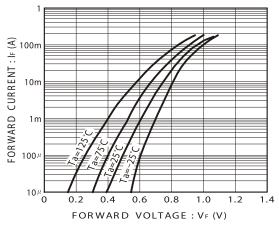


Fig.1 Forward characteristics

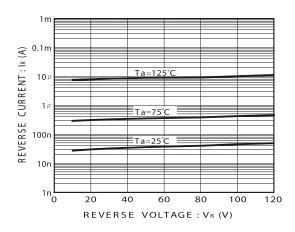


Fig.2 Reverse characteristics

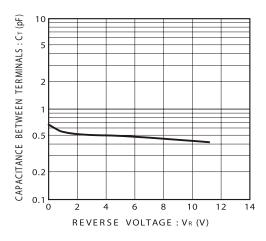


Fig.3 Capacitance between terminals

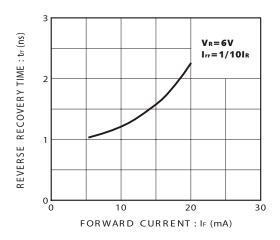


Fig.4 Reverse recovery time characteristics

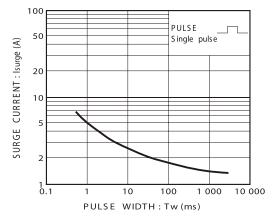


Fig.5 Surge current characteristics

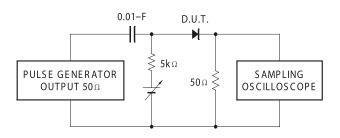


Fig.6 Reverse recovery time (trr) measurement circuit

