

SMALL SIGNAL SWITCHING DIODE

REVERSE VOLTAGE : 50 V
CURRENT: 120 mA

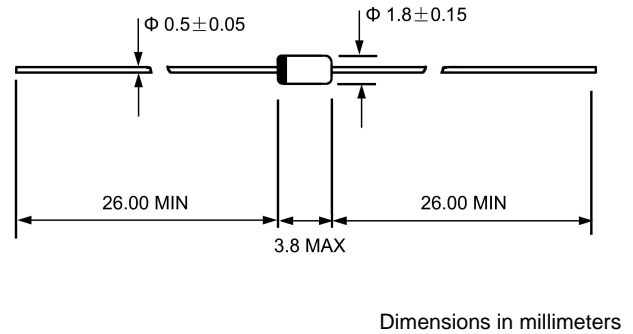
FEATURES

- ◇ Glass sealed envelope. (MSD)
- ◇ High reliability

MECHANICAL DATA

- ◇ Case: DO-35, glass case
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.005 ounces, 0.14 grams

DO - 35(GLASS)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

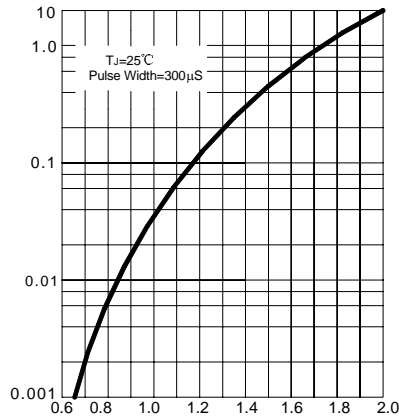
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

| | | 1SS132 | UNITS |
|--|-------------|-----------------|------------------|
| Maximum DC reverse voltage | V_R | 50 | V |
| Maximum recurrent reverse voltage | V_{RM} | 55 | V |
| Power dissipation | P_{tot} | 300 | mW |
| Maximum average forward rectified current | $I_{F(AV)}$ | 120 | mA |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load | I_{FSM} | 500 | mA |
| Maximum instantaneous forward voltage @ 100mA | V_F | 1.2 | V |
| Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=150^\circ\text{C}$ | I_R | 0.5 50 | μA |
| Reverse recovery time @ $I_F=10\text{mA}, V_R=6\text{V}, R_L=50$ | t_{rr} | 4.0 | ns |
| Operating junction temperature range | T_J | - 55 ---- + 175 | $^\circ\text{C}$ |
| Storage temperature range | T_{STG} | - 55 ---- + 175 | $^\circ\text{C}$ |

www.galaxyen.com

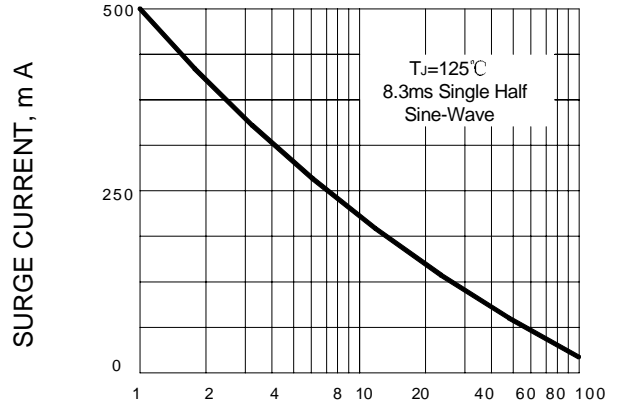
FIG.1 – FORWARD CHARACTERISTICS

INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

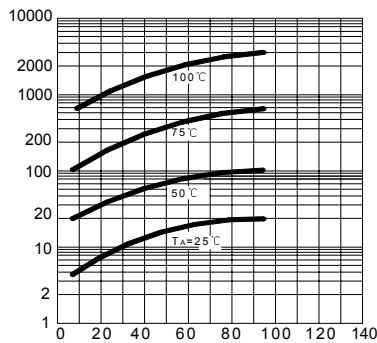
FIG.2 – SURGE CURRENT CHARACTERISTICS



FORWARD VOLTAGE, V

FIG.3 -- REVERSE CHARACTERISTICS

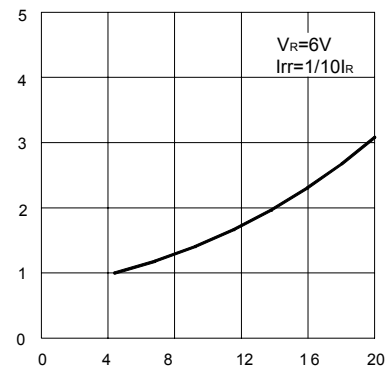
REVERSE CURRENT, nA



FORWARD VOLTAGE, V

FIG.4 – REVERSE RECOVERY TIME CHARACTERISTICS

REVERSE RECOVERY TIME, ns



FORWARD CURRENT, mA

FIG.5 – REVERSE RECOVERY TIME (t_{rr}) MEASUREMENT CIRCUIT

