

1SS245

Small Signal Switching Diodes

REVERSE VOLTAGE: 250 V

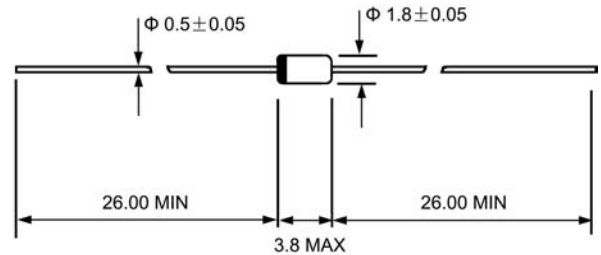
CURRENT: 0.2 A

DO - 35(GLASS)



Features

- ◇ Glass sealed envelope. (MSD)
- ◇ $V_{RM}=250V$ guaranteed
- ◇ High reliability



Dimensions in millimeters

Mechanical Data

- ◇ Case: DO-35,glass case
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.004 ounces, 0.13 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase,half wave,50 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		1SS245	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	250	V
Maximum DC blocking voltage	V_{DC}	220	V
Maximum average forward rectified current	$I_{F(AV)}$	0.2	A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load	I_{FSM}	625.0	mA
Maximum instantaneous forward voltage@0.2 A	V_F	1.5	V
Maximum reverse current @ $V_R=220V$	I_R	10.0	μA
Capacitance between terminals @ $V_R=0V,f=1MHz$	C_T	3.0	pF
Power dissipation	P_{tot}	300	mW
Reverse recovery time $I_F=20mA,I_R=20mA,R_L=50$	t_{rr}	75	ns
Operating junction temperature range	T_J	- 55 ---- + 175	°C
Storage temperature range	T_{STG}	- 55 ---- + 175	°C

Ratings AND Characteristic Curves

FIG.1 – FORWARD CHARACTERISTICS

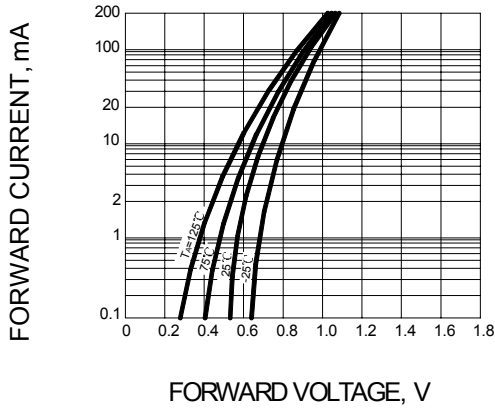


FIG.2 – REVERSE CHARACTERISTICS

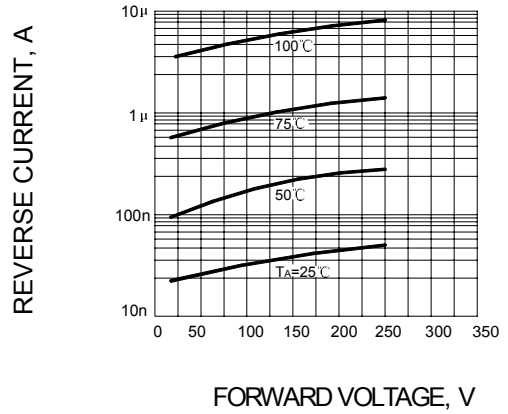


FIG.3 – CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS

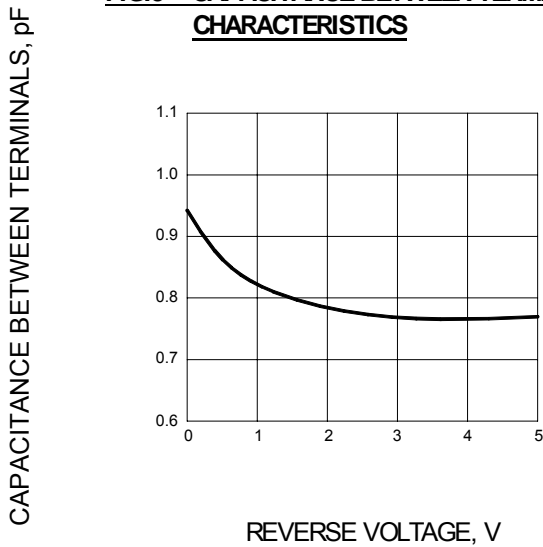


FIG.4 – REVERSE RECOVERY TIME CHARACTERISTICS

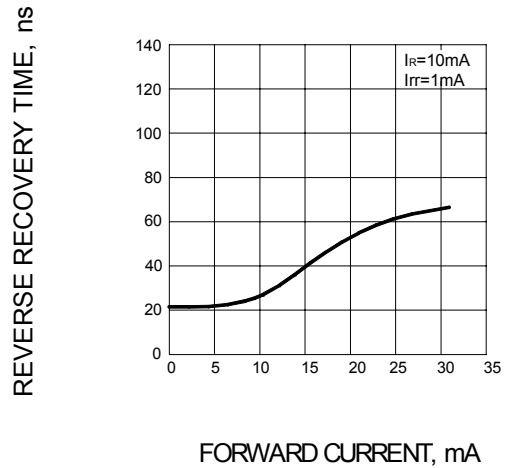


FIG.5 – SURGE CURRENT CHARACTERISTICS

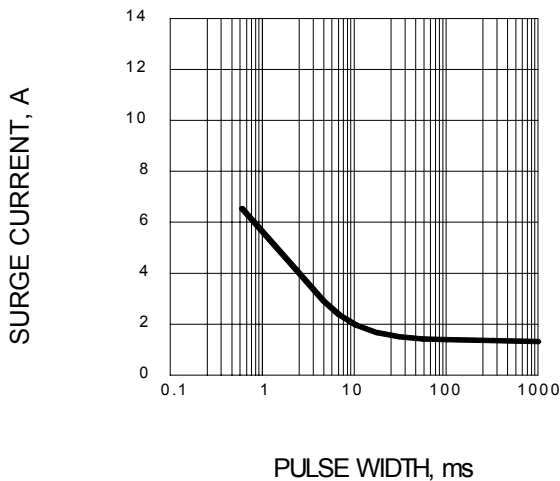


FIG.6 – REVERSE RECOVERY TIME (trr) MEASUREMENT CIRCUIT

