

DATA SHEET

1SS372

SURFACE MOUNT SCHOTTKY BARRIER

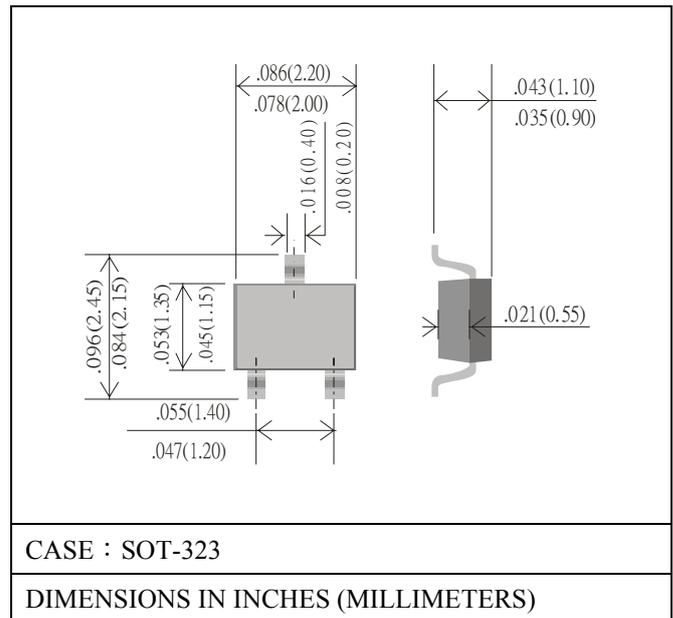
VOLTAGE 10 Volts **CURRENT** 100 mA

FEATURES

- FAST SWITCHING SPEED
- LOW TURN-ON VOLTAGE
- PN JUNCTION GUARD RING FOR TRANSIENT AND ESD PROTECTION

MECHANICAL DATA

- CASE : SOT-323, PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-202, METHOD208
- APPROX. WEIGHT: 0.0052 GRAMS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	VALUE	UNITS
PEAK REVERSE VOLTAGE	V_{RM}	10	V
DC REVERSE VOLTAGE	V_R	10	V
MAXIMUM AVERAGE FORWARD CURRENT AT $T_A=75^\circ\text{C}$	I_O	100	mA
PEAK FORWARD SURGE CURRENT, 1.0ms (JEDEC METHOD)	I_{FSM}	1.0	A
JUNCTION TEMPERATURE	T_J	- 55 TO + 125	$^\circ\text{C}$
STORAGE TEMPERATURE	T_{STG}	- 55 TO +125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER	SYMBOL	VALUE	UNITS
MAXIMUM FORWARD VOLTAGE	V_F	$I_F=1\text{mA}$	0.18(TYP.)
		$I_F=5\text{mA}$	0.3(TYP.)
		$I_F=100\text{mA}$	0.5(MAX.)
MAXIMUM DC REVERSE CURRENT AT 10V	I_R	20	μA
JUNCTION CAPACITANCE (NOTE 1)	C_J	120	pF

NOTE: 1. C_J AT $V_R=0\text{V}, f=1\text{MHz}$

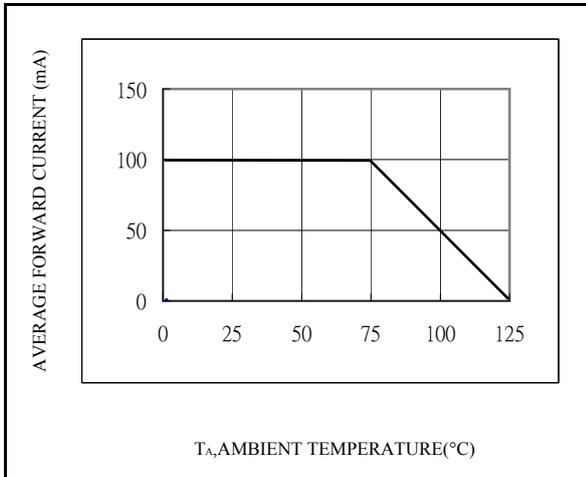


Fig.1-POWER DERATING CURVE

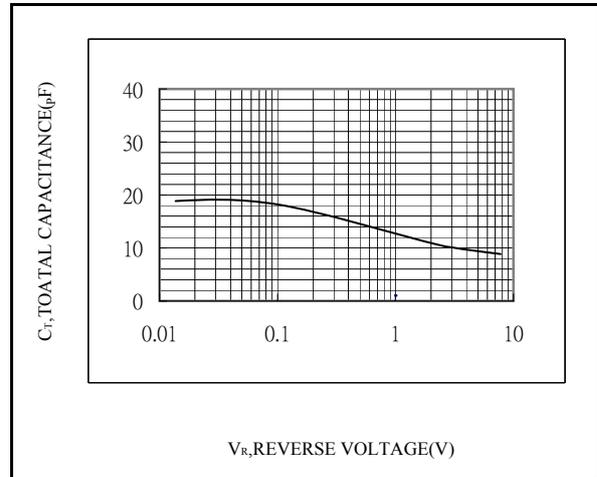
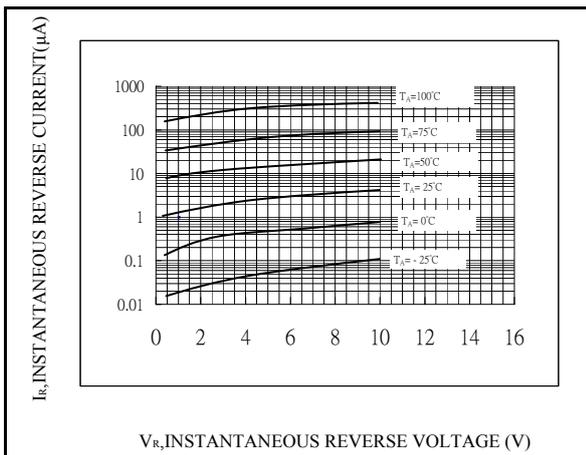
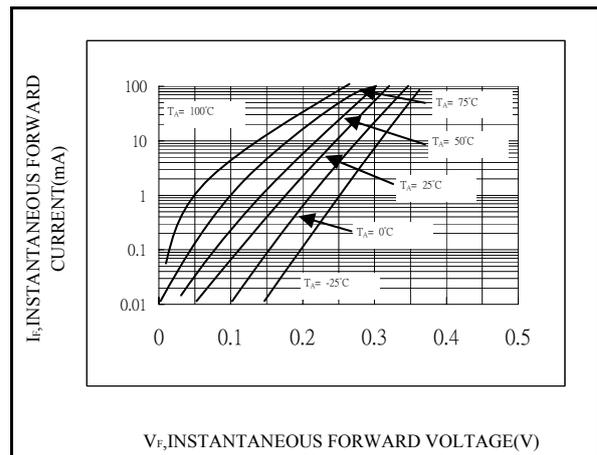


Fig.2-TYPICAL CAPACITANCE VS.REVERSE VOLTAGE



V_R ,INSTANTANEOUS REVERSE VOLTAGE (V)

Fig.3- TYPICAL REVERSE CHARACTERISTICS



V_F ,INSTANTANEOUS FORWARD VOLTAGE(V)

Fig.4- FORWARD CHARACTERISTIC