DATA SHEET

SD107WS

SURFACE MOUNT SCHOTTKY BARRIER

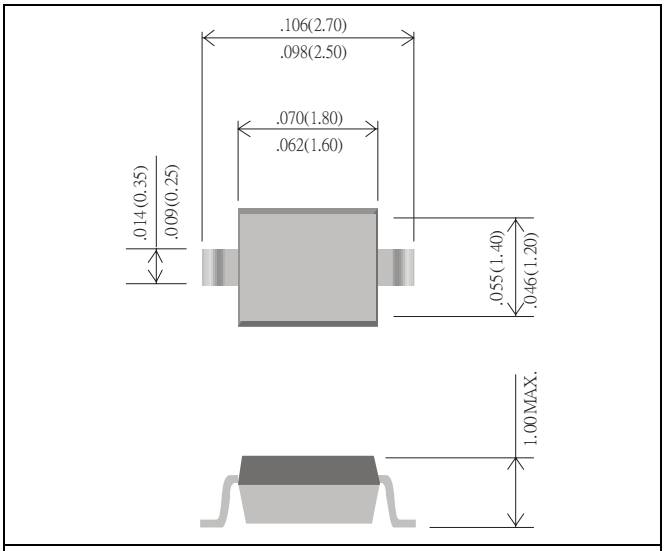
VOLTAGE **30 Volts** **CURRENT** **200 mA**

FEATURES

- FAST SWITCHING
- LOW FORWARD VOLTAGE DROP
- PN JUNCTION GUARD RING FOR TRANSIENT AND ESD PROTECTION

MECHANICAL DATA

- CASE：SOD-323,PLASTIC
- TERMINALS：SOLDERABLE PER MIL-STD-202, METHOD 208
- APPROX. WEIGHT:0.0045 GRAMS



CASE：SOD-323

DIMENSIONS IN INCHES (MILLIMETERS)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	VALUE	UNITS
PEAK REVERSE VOLTAGE AT I_R=100μA	V_R,V_{RRM}	30	V
FORWARD CONTINUOUS CURRENT	I_{FM}	100	mA
FORWARD SURGE CURRENT AT t_P= 10ms	I_{FSM}	750	mA
THERMAL RESISTANCE JUNCTION TO AMBIENT AIR	$R_{\theta JA}$	500	℃/W
POWER DISSIPATION	P_D	250	mW
JUNCTION TEMPERATURE	T_J	150	℃
STORAGE TEMPERATURE	T_{STG}	-65 TO +150	℃

ELECTRICAL CHARACTERISTICS (A_T T_A =25°C UNLESS OTHERWISE NOTED)

PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE	I_F=2mA	V_F	-	300	-	V
	I_F=15mA		-	360	-	
	I_F=50mA		-	470	550	
	I_F=100mA		-	580	800	
MAXIMUM DC REVERSE CURRENT AT 25V		I_R	-	-	1	μA
TOTAL CAPACITANCE (NOTE 1)		C_T	-	7	-	pF

NOTE: 1. V_R=10V,f =1MHz

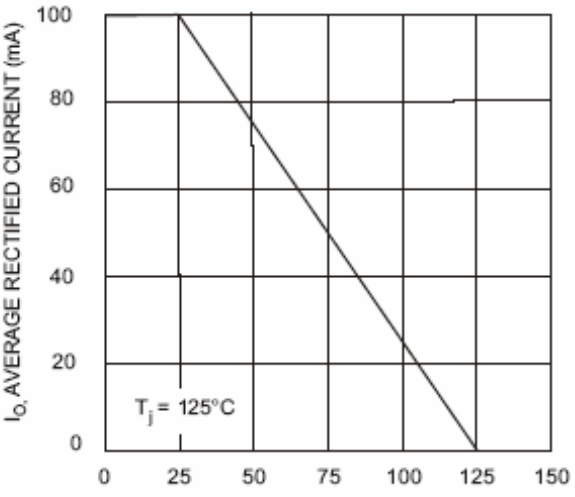


Fig. 1 Forward Current Derating Curve

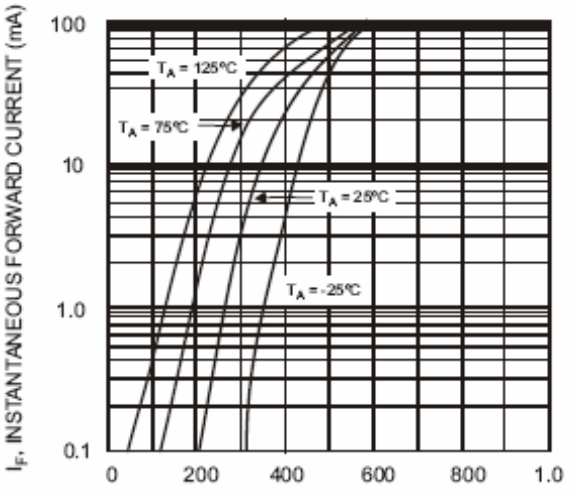


Fig. 2 Typical Forward Characteristics

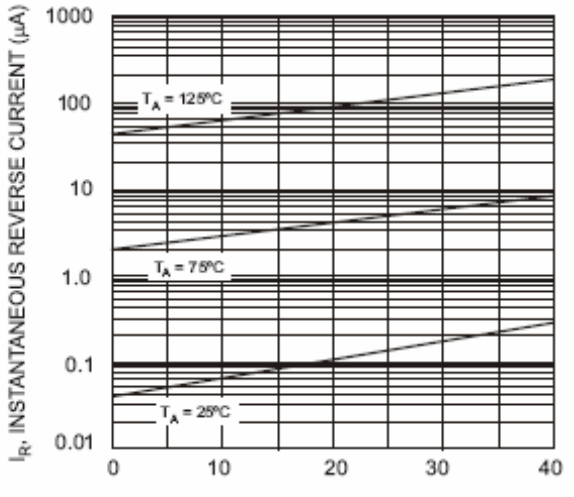


Fig. 3 Typical Reverse Characteristics

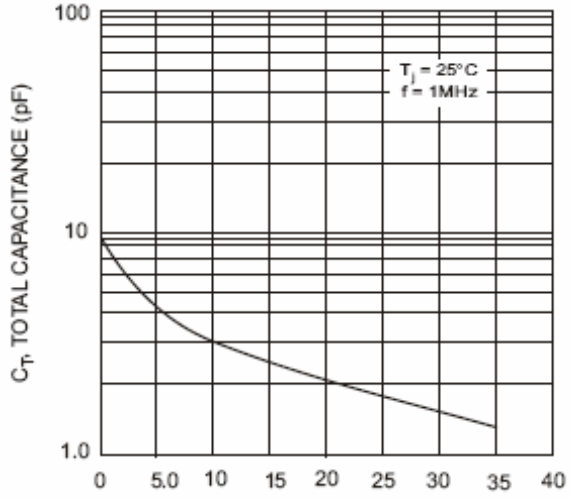


Fig. 4 Total Capacitance vs. Reverse Voltage