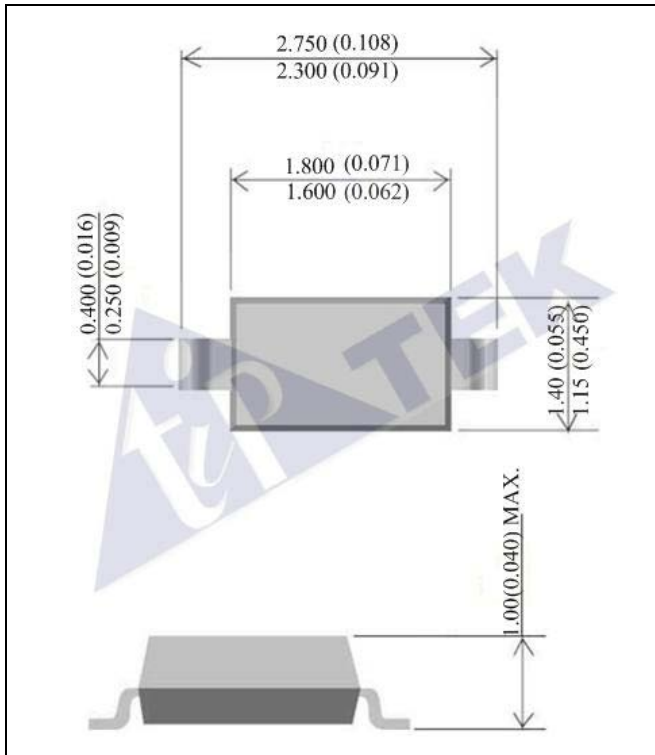


200 mW SURFACE MOUNT SWITCHING BARRIER



CASE : SOD-323

DIMENSIONS IN MILLIMETERS AND (INCHES)

FEATURES

- HIGH SWITCHING SPEED
- SURFACE MOUNT PACKAGE IDEALLY SUITED FOR AUTOMATIC INSERTION
- ELECTRICALLY IDENTICAL TO STANDARD JEDEC
- HIGH CONDUCTANCE
- BOTH NORMAL AND Pb FREE PRODUCT ARE AVAILABLE:
 NORMAL:80~95%Sn,5~20%Pb
 Pb FREE:98.5% Sn ABOVE

MECHANICAL DATA

- CASE : SOD-323,PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-750, METHOD2026
- APPROX. WEIGHT: 0.00465 GRAM
- Pb Free: BAS316
 Halogen Free: BAS316-H



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.			
PARAMETER	SYMBOL	BAS316	UNITS
DC REVERSE VOLTAGE	V_R	75	V
MAXIMUM AVERAGE FORWARD CURRENT	I_O	200	mA
MAXIMUM PEAK FORWARD SURGE CURRENT	I_{FSM}	500	mA
POWER DISSIPATION DERATE ABOVE 25°C	P_D	200	mW
JUNCTION TEMPERATURE	T_J	150	°C
STORAGE TEMPERATURE	T_{STG}	- 55 TO +150	°C
ELECTRICAL CHARACTERISTICS (A _T T _A =25°C UNLESS OTHERWISE NOTED)			
PARAMETER	SYMBOL	BAS316	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE@ $I_F=1.0mA$ @ $I_F=10mA$ @ $I_F=50mA$ @ $I_F=150mA$	V_F	715 855 1000 1250	mV
MAXIMUM DC REVERSE CURRENT @ $V_R=75V$	I_R	1.0	μA
REVERSE RECOVERY TIME $I_F=I_R=10mA$ $R_L=50\Omega$	t_{rr}	6	ns
FORWARD RECOVERY VOLTAGE $I_F= I_R=10 mA$, $t_r=20ns$	V_{FR}	1.75	V
DIODE CAPACITANCE AT $V_R=0V, f=1MHz$	C_D	2.0	pF

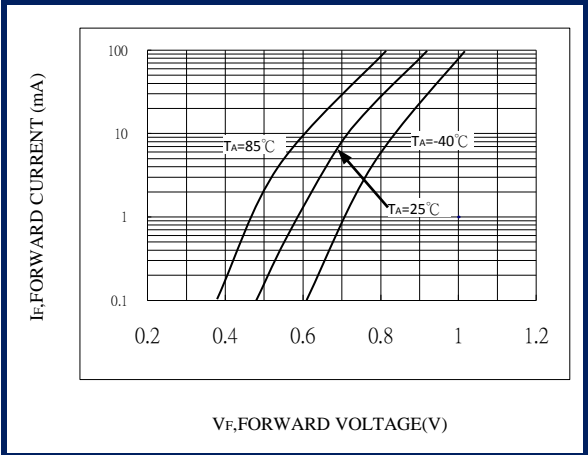


Fig 1. FORWARD VOLTAGE

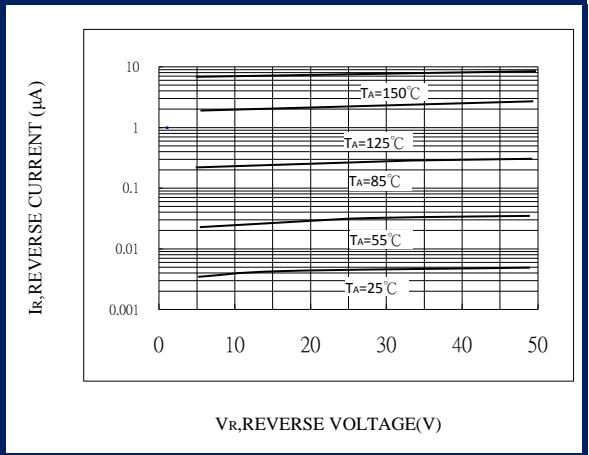


Fig 2. LEAKAGE CURRENT

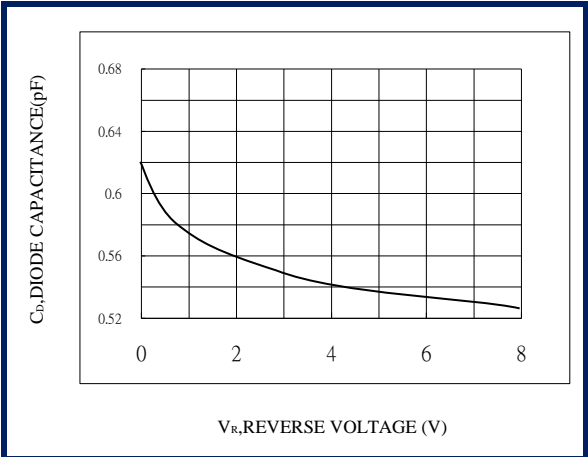


Fig 3. CAPACITANCE

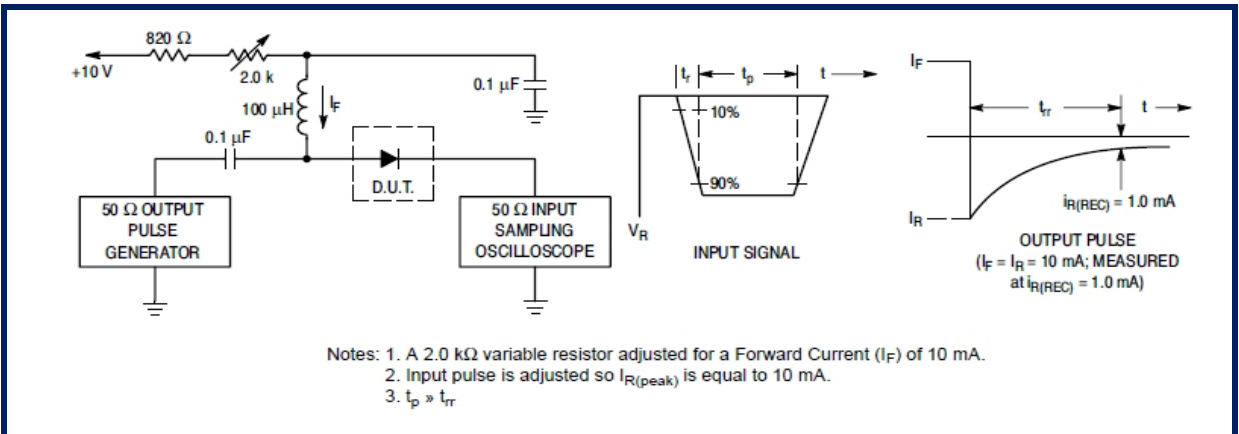


Fig 4. RECOVERY TIME EQUIVALENT TEST CIRCUIT