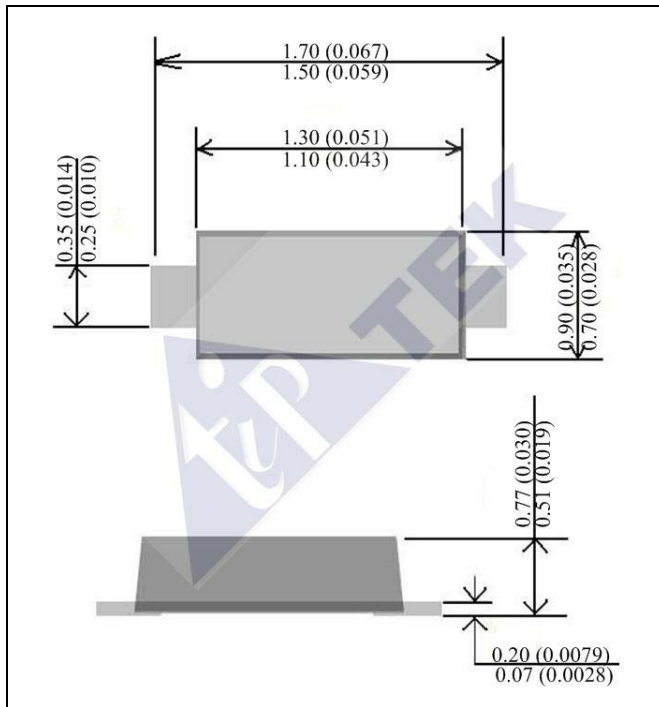


SURFACE MOUNT SCHOTTKY DIODES



CASE : SOD-523

DIMENSIONS IN MILLIMETERS AND (INCHES)

FEATURES

- EXTREMELY FAST SWITCHING SPEED
- BOTH NORMAL AND Pb FREE PRODUCT ARE AVAILABLE:
 NORMAL:80~95% Sn,5~20%Pb
 Pb FREE:99% Sn ABOVE

MECHANICAL DATA

- CASE : SOD-523,PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-750, METHOD2026
- APPROX. WEIGHT:1.695 MILLIGRAM
- Pb-Free : RB751S-40
 Halogen Free : RB751S-40-H

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	RB751S-40	UNITS
REVERSE VOLTAGE (REPETITIVE PEAK)	V_{RRM}	40	V
REVERSE VOLTAGE (DC)	V_R	30	V
AVERAGE REPETITIVE FORWARD CURRENT	I_O	30	mA
FORWARD CURRENT SURGE PEAK(60Hz 1CYC)	I_{FSM}	200	mA
JUNCTION TEMPERATURE	T_J	125	°C
STORAGE TEMPERATURE	T_{STG}	- 40 TO +125	°C

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

PARAMETER	SYMBOL	RB751S-40	UNITS
FORWARD VOLTAGE AT $I_F=1\text{mA}$	V_F	MAX 0.37	V
REVERSE CURRENT AT $V_R=30\text{V}$	I_R	MAX 0.5	μA
CAPACITANCE BETWEEN TERMINALS AT $V_R=1\text{V}, f=1\text{MHz}$	C_J	TYP 2	pF

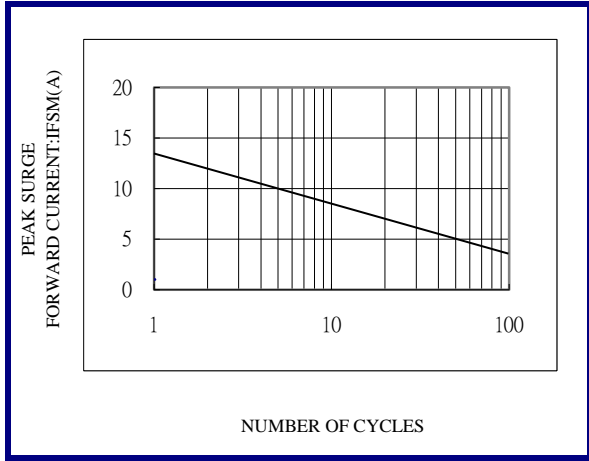


Fig. 1-IFSM-CYCLE CHARACTERISTICS

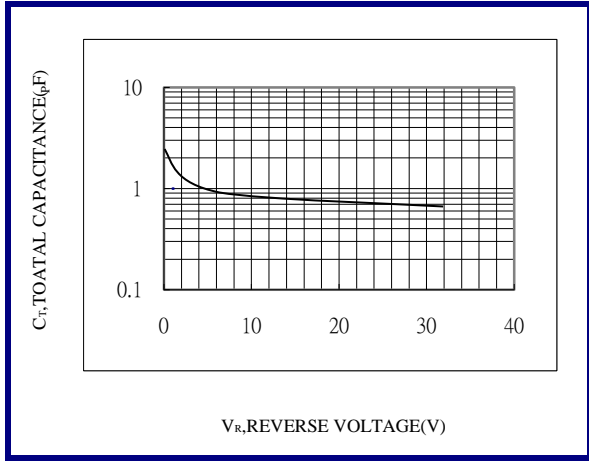


Fig.2-TYPICAL CAPACITANCE VS.REVERSE VOLTAGE

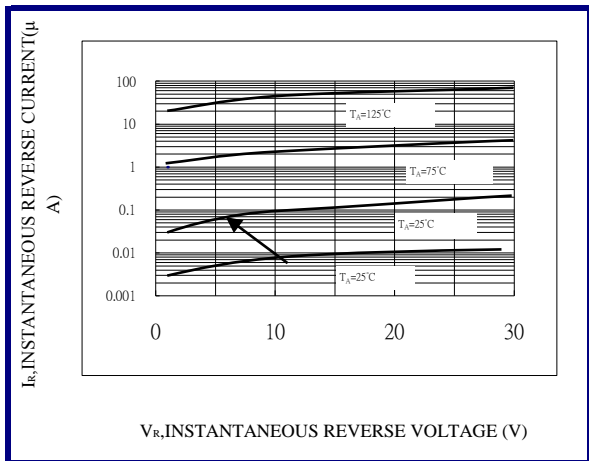


Fig.3- TYPICAL REVERSE CHARACTERISTICS

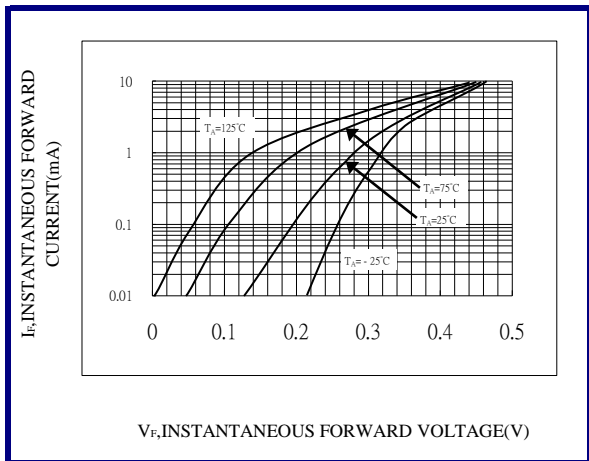


Fig.4- FORWARD CHARACTERISTIC