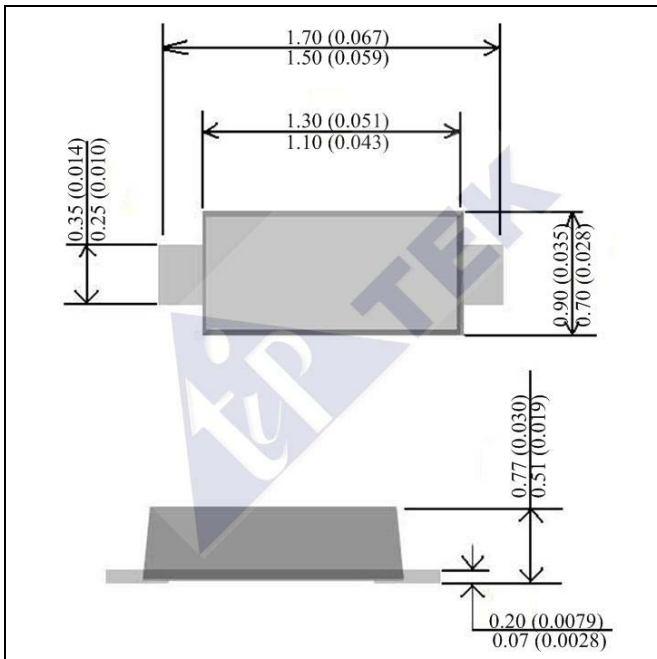


## SURFACE MOUNT SCHOTTKY DIODES



CASE : SOD-523

DIMENSIONS IN MILLIMETERS AND (INCHES)

### FEATURES

- LOW  $V_F$ .
- 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:RB521S-30  
 Halogen Free:RB521S-30-H

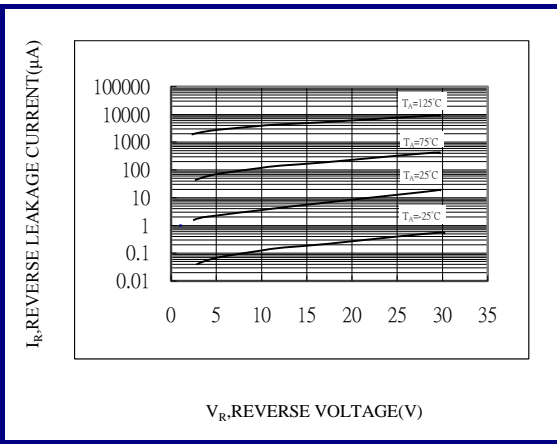
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

#### RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

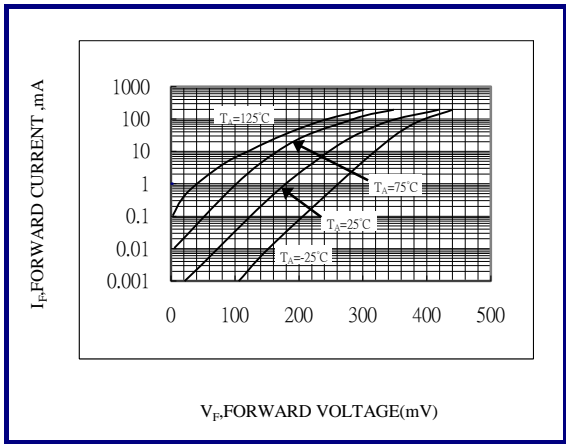
PARAMETER	SYMBOL	RB521S-30	UNITS
REVERSE VOLTAGE (REPETITIVE PEAK)	$V_{RRM}$	35	V
REVERSE VOLTAGE (DC)	$V_R$	30	V
AVERAGE REPETITIVE FORWARD CURRENT	$I_O$	200	mA
FORWARD CURRENT SURGE PEAK(60Hz 1CYC)	$I_{FSM}$	1.0	A
JUNCTION TEMPERATURE	$T_J$	125	°C
STORAGE TEMPERATURE	$T_{STG}$	- 40 TO +125	°C

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

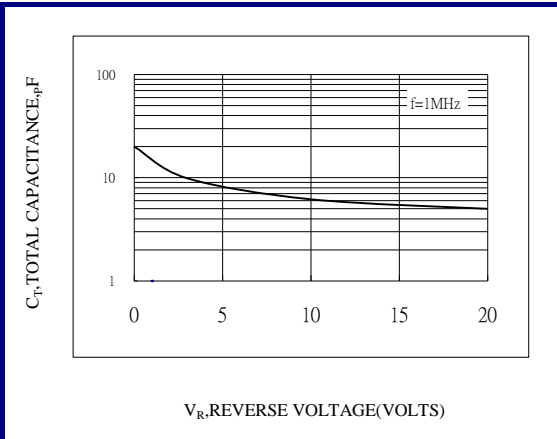
PARAMETER	SYMBOL	RB521S-30	UNITS
FORWARD VOLTAGE AT $I_F=200\text{mA}$	$V_F$	MAX 0.5	V
REVERSE CURRENT AT $V_R=10\text{V}$	$I_R$	MAX 30	$\mu\text{A}$
CAPACITANCE BETWEEN TERMINALS AT $V_R=0\text{V}, F=1\text{MHz}$	$C_J$	TYP 3	pF



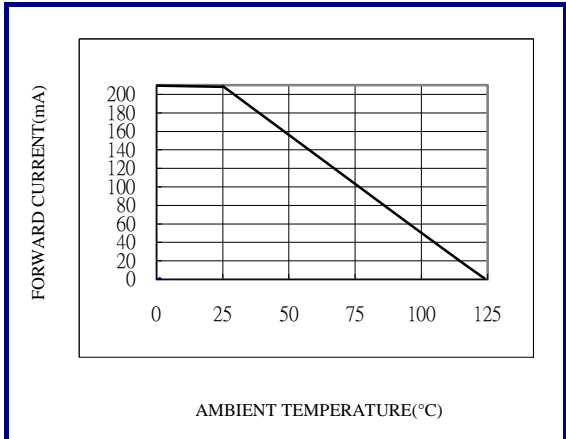
**Fig.1-TYPICAL REVERSE LEAKAGE**



**Fig.2-TYPICAL FORWARD VOLTAGE**



**Fig.3- TYPICAL TOTAL CAPACITANCE**



**Fig.4-FORWARD CURRENT DERATING**