

## DATA SHEET

### RB521S-30

#### SURFACE MOUNT SCHOTTKY DIODES

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

#### FEATURES

- SMALL SURFACE MOUNTING TYPE
- EXTREMELY FAST SWITCHING SPEED
- LOW REVERSE CURRENT AND LOW FORWARD VOLTAGE
- HIGH RELIABILITY
- LEAD FREE AND HALOGEN-FREE

#### MECHANICAL DATA

- CASE: SOD-523, PLASTIC
- TERMINALS: SOLDERABLE PER MIL-STD-750, METHOD 2026
- APPROX. WEIGHT: 0.0014 GRAMS



CASE : SOD-523

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	VALUE	UNITS
PEAK REPETITIVE REVERSE VOLTAGE	$V_{RRM}$	35	V
DC REVERSE VOLTAGE	$V_R$	30	V
AVERAGE REPETITIVE FORWARD CURRENT	$I_O$	200	mA
PEAK SURGE FORWARD CURRENT	$I_{FSM}$	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	VALUE	UNITS
MAXIMUM FORWARD VOLTAGE AT $I_F=200\text{mA}$	$V_F$	0.5	V
MAXIMUM DC REVERSE CURRENT AT 10V	$I_R$	30	$\mu\text{A}$

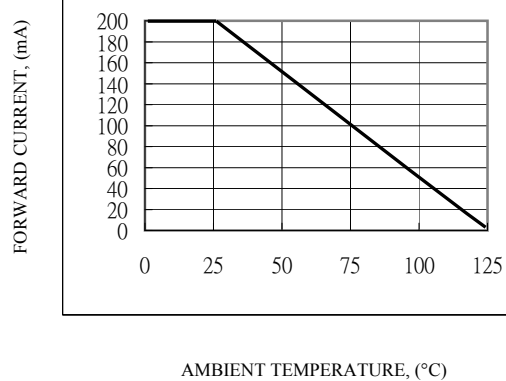


Fig.1-FORWARD CURRENT DERATING

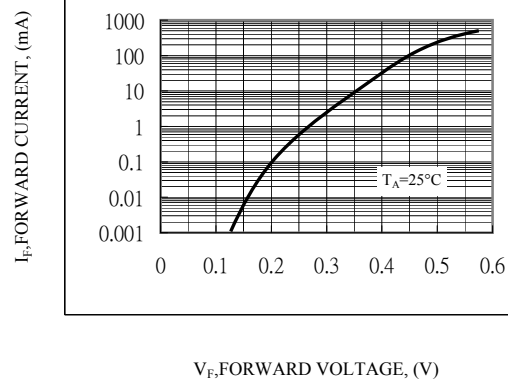


Fig.2-TYPICAL FORWARD VOLTAGE

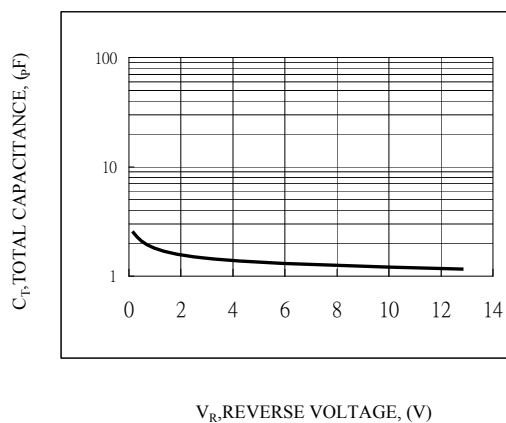


Fig.3- TYPICAL TOTAL CAPACITANCE

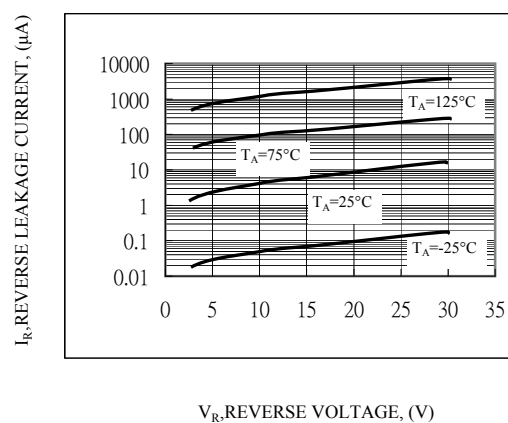
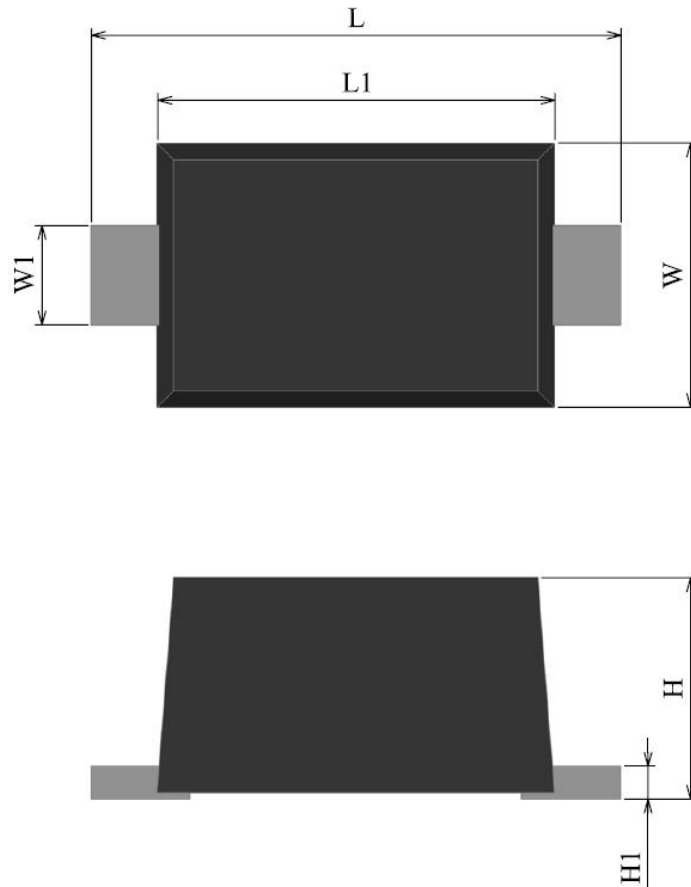


Fig.4-TYPICAL REVERSE LEAKAGE

## SOD-523 DIMENSION



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
L	1.50	1.70	0.059	0.067
L1	1.10	1.30	0.043	0.051
W	0.75	0.85	0.030	0.033
W1	0.25	0.35	0.010	0.014
H	0.55	0.75	0.022	0.030
H1	0.08	0.15	0.003	0.006