1SS277WT

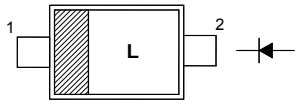
BAND SWITCHING DIODE

Applications

- Low loss band switching in VHF television tuners
- Surface mount band switching circuits

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



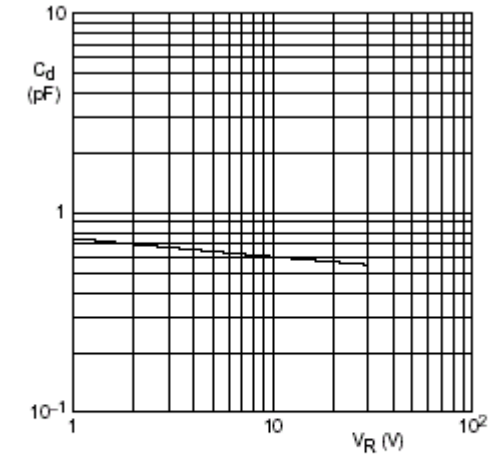
Top View
Marking Code: "**L**"
Simplified outline SOD-523 and symbol

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	35	V
Continuous Forward Current	I_F	100	mA
Power Dissipation (T_S = 90 °C)	P_{tot}	715	mW
Junction Temperature	T_J	- 65 to + 175	°C
Storage Temperature Range	T_{stg}	- 65 to + 175	°C

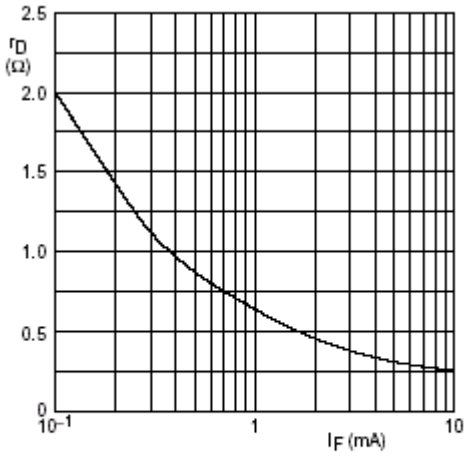
Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I_F = 10 mA	V_F	-	1	V
Reverse Voltage at I_R = 10 µA	V_R	35	-	V
Reverse Current at V_R = 25 V	I_R	-	50	nA
Diode Forward Resistance at I_F = 2 mA, f = 100 MHz	r_f	-	0.7	Ω
Capacitance at f = 1 MHz, V_R = 6 V	C_d	-	1.2	pF



f = 1 MHz; T_j = 25 °C.

Fig. 1 Diode capacitance as a function of reverse voltage; typical values.



f = 100 MHz; T_j = 25 °C.

Fig. 2 Diode forward resistance as a function of forward current; typical values.

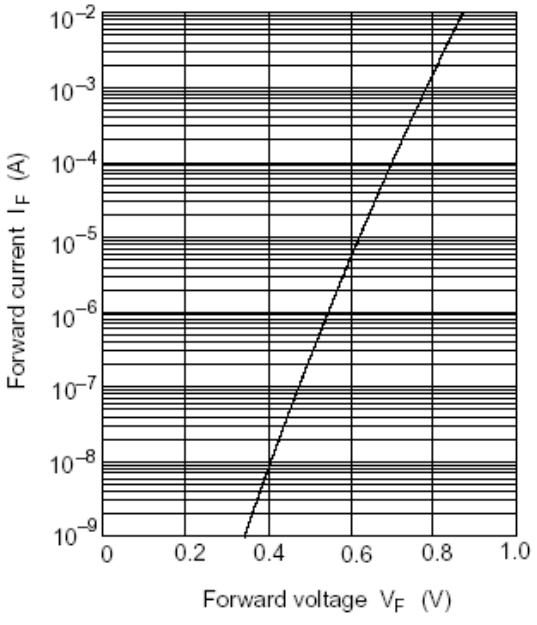


Fig. 3 Forward current Vs. Forward voltage

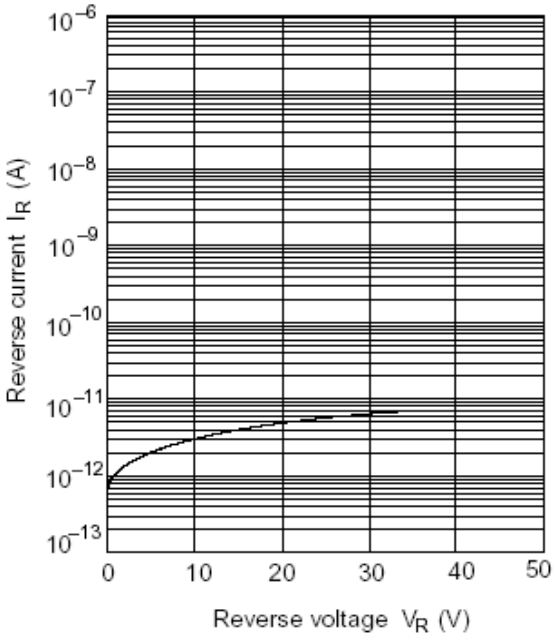
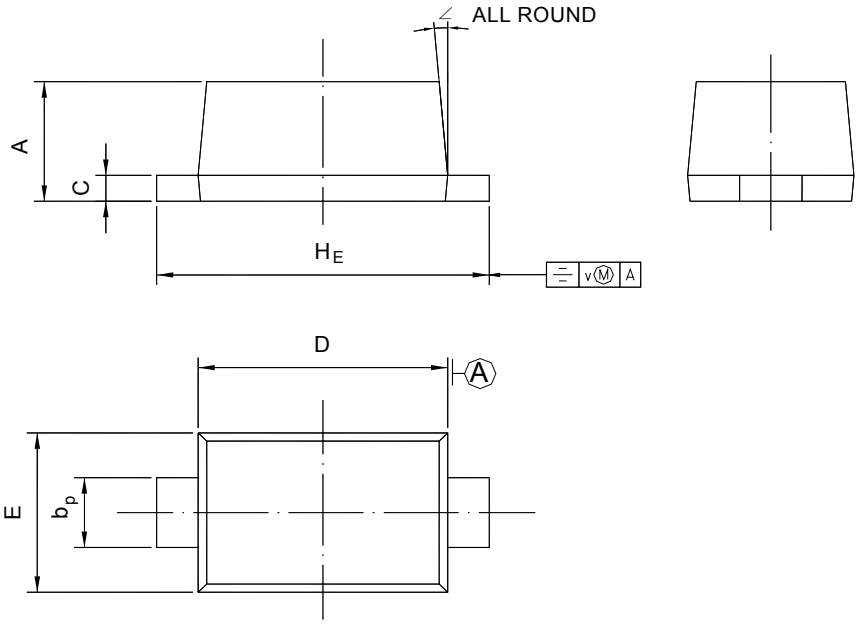


Fig. 4 Reverse current Vs. Reverse voltage

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **SOD-523**



UNIT	A	b_p	C	D	E	H_E	V	∠
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°