SCHOTTKY BARRIER DIODE

LRB521S–30T1

SOD523/SC-79

●Applictions

Low current rectification and high speed switching

●Features

Extremelysmall surface mounting type. (SC-79/SOD523)

I_O=200mA guaranteed despite the size.

Low V_F.(V_F=0.40V Typ. At 200mA)

●Construction

silicon epitaxial planar

MAXIMUM RATINGS (T_A = 25°C)

Parameter	Symbol	Limits	Unit
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	200	mA
Peak forward surge current*	I_{FSM}	1	A
Junction temperature	T_j	125	℃
Storage temperature	T_{stg}	-40~+125	℃

*60Hz for 1 ∽

DEVICE MARKING

LRB521S-30T1=5M

ELECTRICAL CHARACTERISTICS(T_A= 25°C)

Parameter	Symbol	Min.	Typ	Max.	Unit	Conditions
Forward voltage	V_F	–	–	0.50	V	I_F=200mA
Reverse current	I_R	–	–	30	μA	V_R=10V

LRB521S–30T1

Electrical characteristic curves(Ta=25°C)

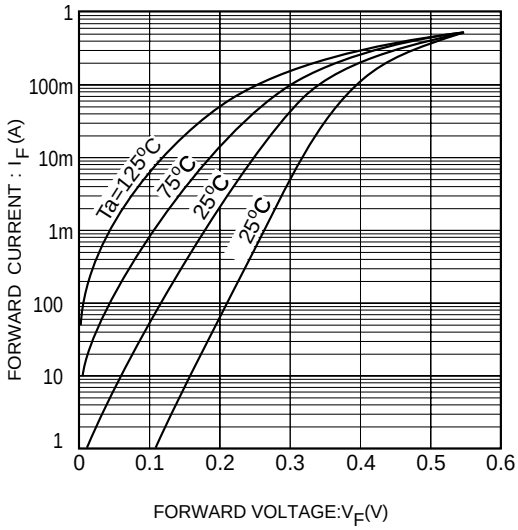


Fig. 1 Forward characteristics

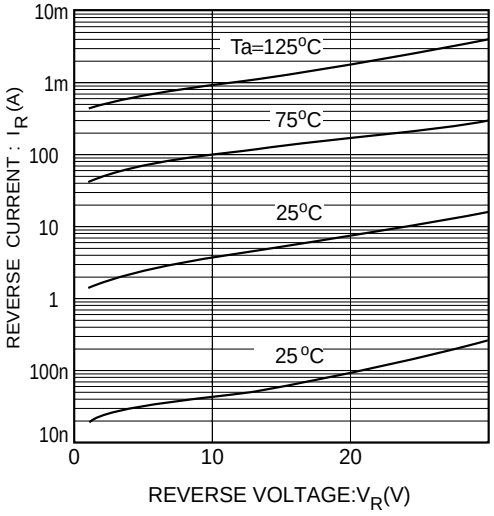


Fig. 2 Reverse characteristics

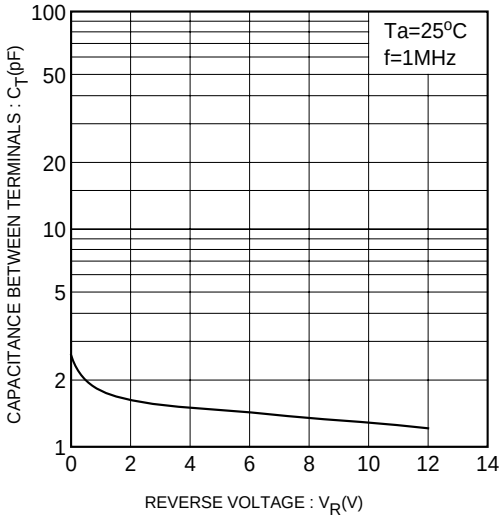


Fig. 3 Capacitance between terminals characteristics

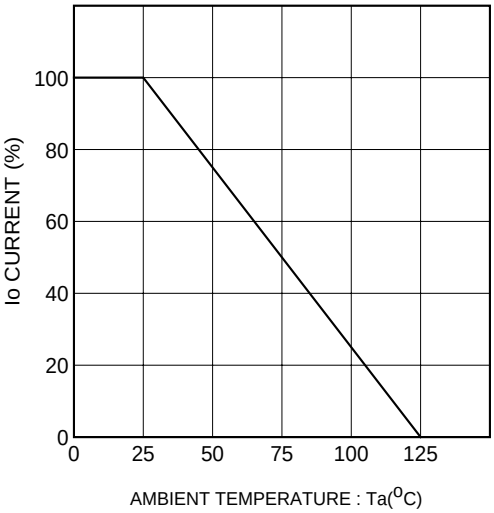
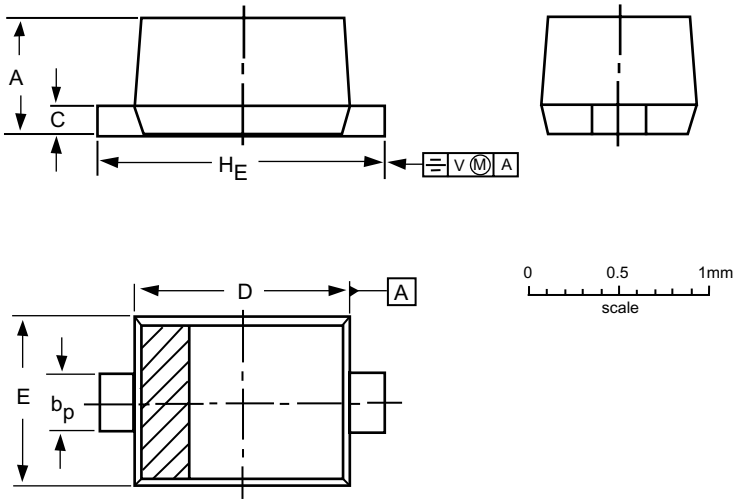


Fig. 4 Derating curve (mounting on glass epoxy PCBs)

LRB521S-30T1

SC–79/SOD–523



DIMENSIONS (mm are the original dimensions)

UNIT	A	b_p	c	D	E	H_E	V
mm	0.7	0.35	0.2	1.3	0.9	1.7	0.15
	0.5	0.25	0.1	1.1	0.7	1.5	

Note

1. The marking bar indicates the cathode.

OUTLINE VERSION	REFERENCES			EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ		
SOD523			SC-79		98-11-25