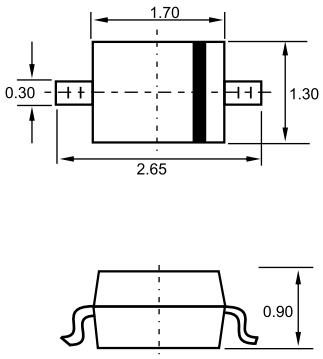
RB501V-40

Schottky Diodes



SOD-323



Dimensions in inches and (millimeters)

Features

- ✧ Low current rectifier Schottky diode
- ✧ Low voltage, low inductance
- ✧ For power supply

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

Maximum Ratings

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	45	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	0.1	A
Peak forward surge current	I_{FSM}	1	A
Junction temperature	T_j	125	℃
Storage temperature	T_{stg}	-55~+125	℃

Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F			0.55 0.34	V	I_F=100mA I_F=10mA
Reverse current	I_R			30	μA	V_R=10V
Capacitance between terminals	C_T		6		pF	V_R=10V, f=1MHZ

Typical Characteristics

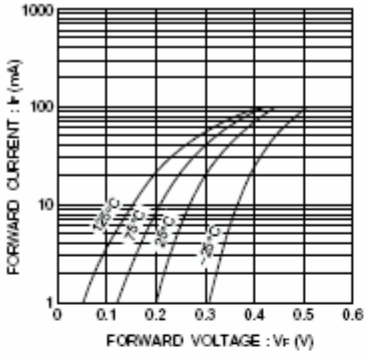


Fig. 1 Forward characteristics

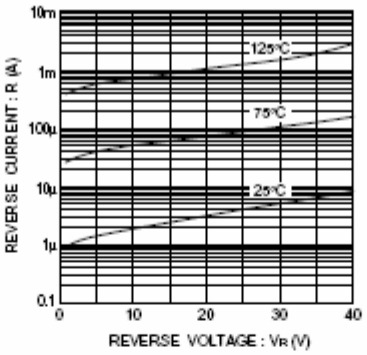


Fig. 2 Reverse characteristics

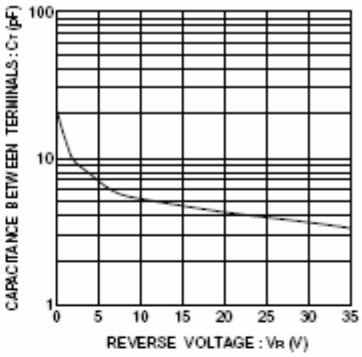


Fig. 3 Capacitance between terminals characteristics

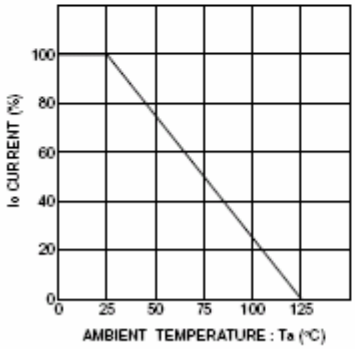


Fig. 4 Derating curve
(mounting on glass epoxy PCBs)