



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOD-323 Plastic-Encapsulate Diodes

RB500V-40 Schottky Diodes

SOD-323



FEATURES

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

MAKING: 2

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

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	°C
Storage temperature	T _{stg}	-40~+125	°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F			0.45	V	I _F =10mA
Reverse current	I _R			1	μA	V _R =10V
Capacitance between terminals	C _T		6		pF	V _R =10V, f=1MHZ

Typical Characteristics

RB500V-40

●Electrical characteristic curves ($T_a = 25^\circ\text{C}$)

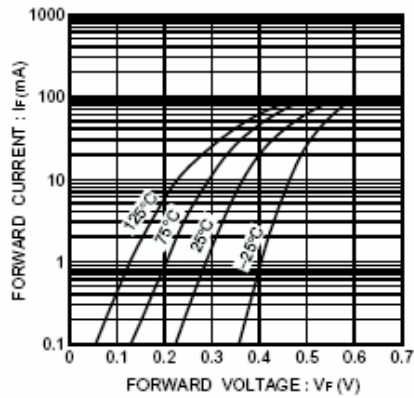


Fig. 1 Forward characteristics

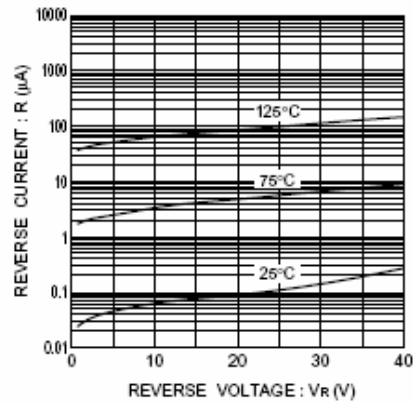


Fig. 2 Reverse characteristics

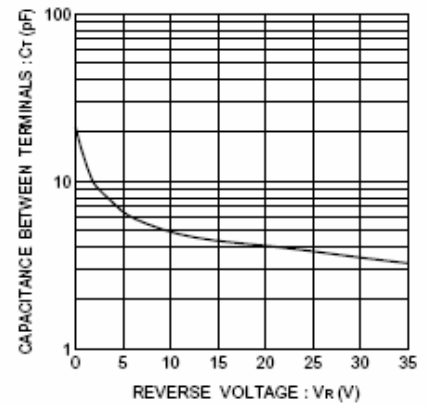


Fig. 3 Capacitance between terminals characteristics

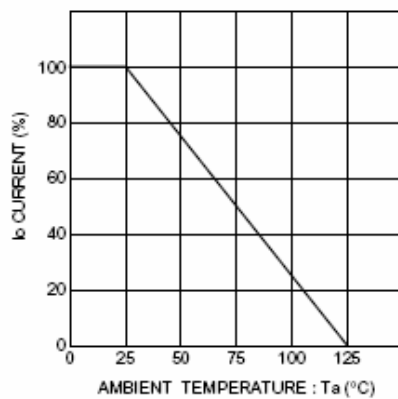


Fig. 4 Derating curve
(mounting on glass epoxy PCBs)