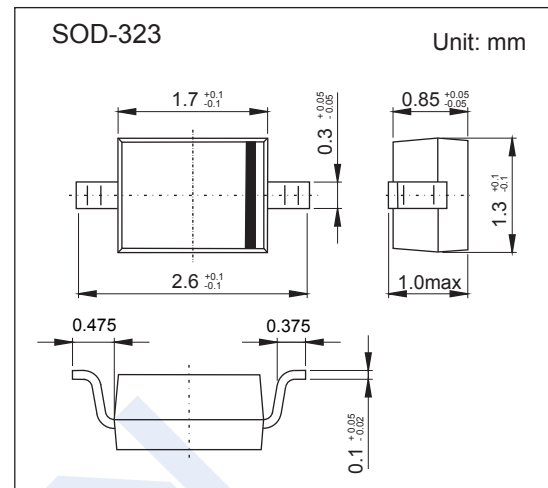


Schottky Diodes

RB500V-40T1

■ Features

- Small surfacemounting type.
- Low IR. (IR=70nA Typ.)
- High reliability.
- Pb-Free package is available



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Peak Reverse Voltage	V _{RM}	45	V
DC Blocking Voltage	V _R	40	
Average Rectified Output Current	I _o	100	mA
Peak Forward Surge Current	I _{FSM}	1	A
Junction Temperature	T _J	125	°C
Storage Temperature range	T _{stg}	-45 to 125	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _R	I _R = 100 uA	45			V
Forward voltage	V _F	I _F = 10 mA			0.45	
Reverse voltage leakage current	I _R	V _R =10 V			1	uA
Capacitance between terminals	C _T	V _R = 10 V, f= 1 MHz		6		pF

■ Marking

Marking	5
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Schottky Diodes

RB500V-40T1

■ Typical Characteristics

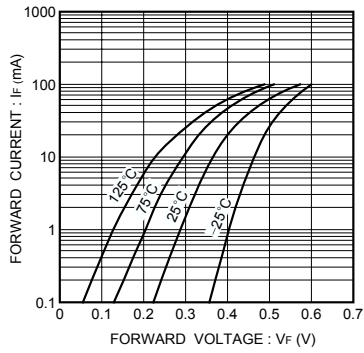


Fig. 1 Forward characteristics

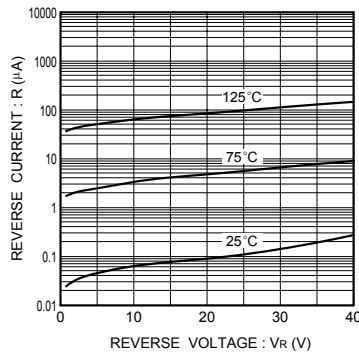


Fig. 2 Reverse characteristics

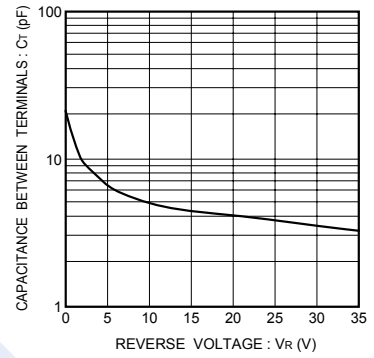


Fig. 3 Capacitance between terminals characteristics

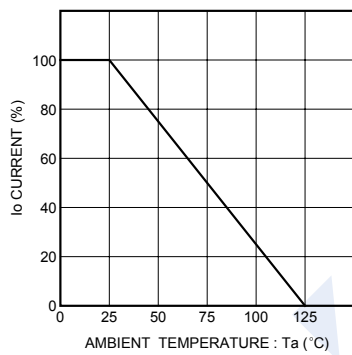


Fig. 4 Derating curve
(mounting on glass epoxy PCBs)