

Schottky Barrier Diode

RB500V-40

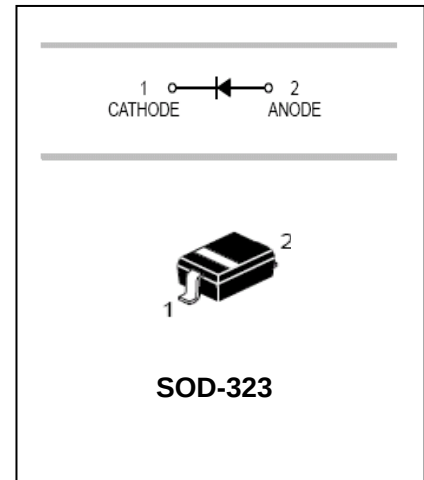
FEATURES

- Small surface mountong type
- Low I_R
- High reliability



APPLICATIONS

- Low current rectification



ORDERING INFORMATION

Type No.	Marking	Package Code
RB500V-40	2	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

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 to+125	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

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	$V_R=10V, f=1MHz$

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TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

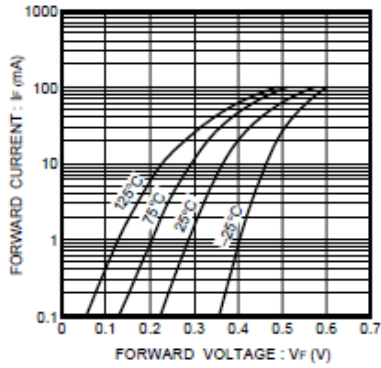


Fig. 1 Forward characteristics

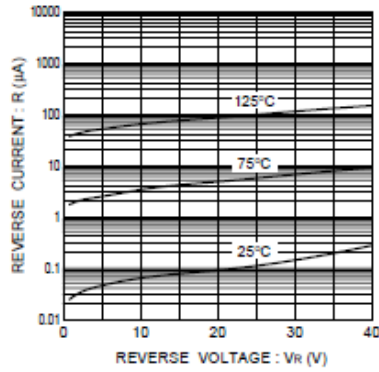


Fig. 2 Reverse characteristics

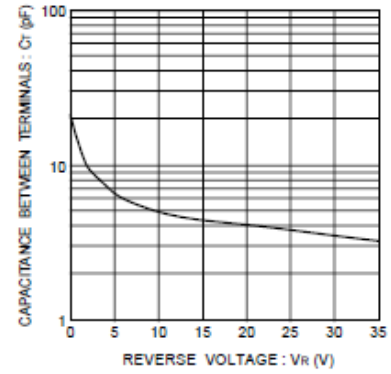


Fig. 3 Capacitance between terminals characteristics

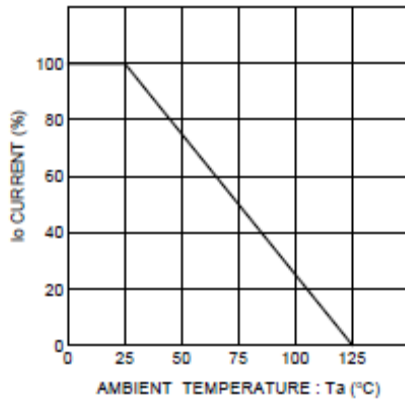


Fig. 4 Derating curve
(mounting on glass epoxy PCBs)

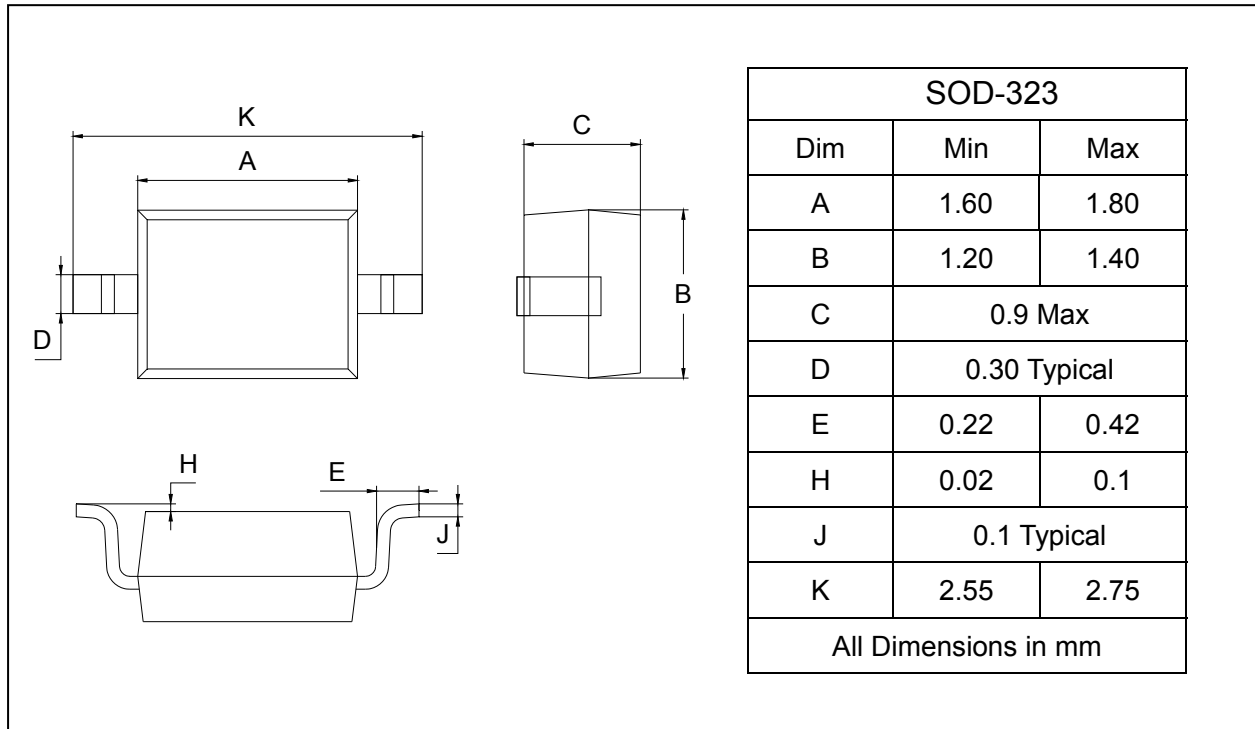
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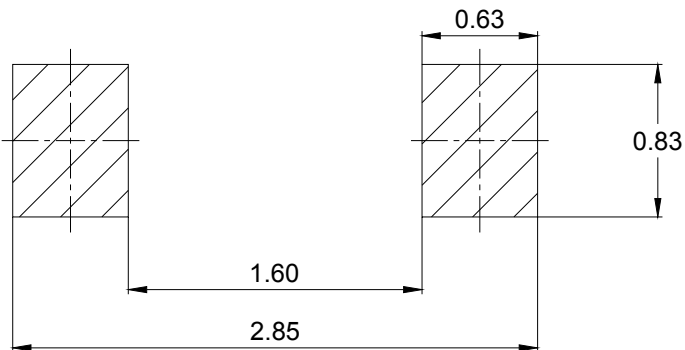
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
RB500V-40	SOD-323	3000/Tape&Reel