

Schottky Barrier Diode

RB501V-40

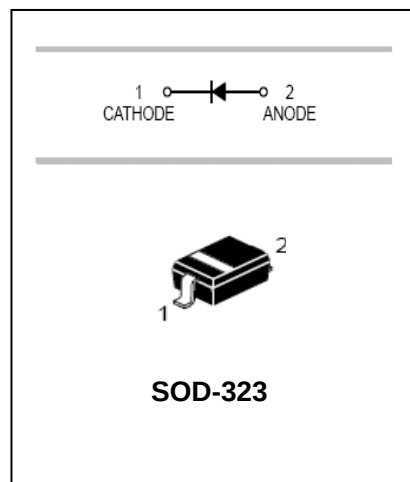
FEATURES

- High current rectifier schottky diode
- Low voltage; Low inductance
- For power supply



APPLICATIONS

- High frequency rectification



ORDERING INFORMATION

Type No.	Marking	Package Code
RB501V-40	4	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

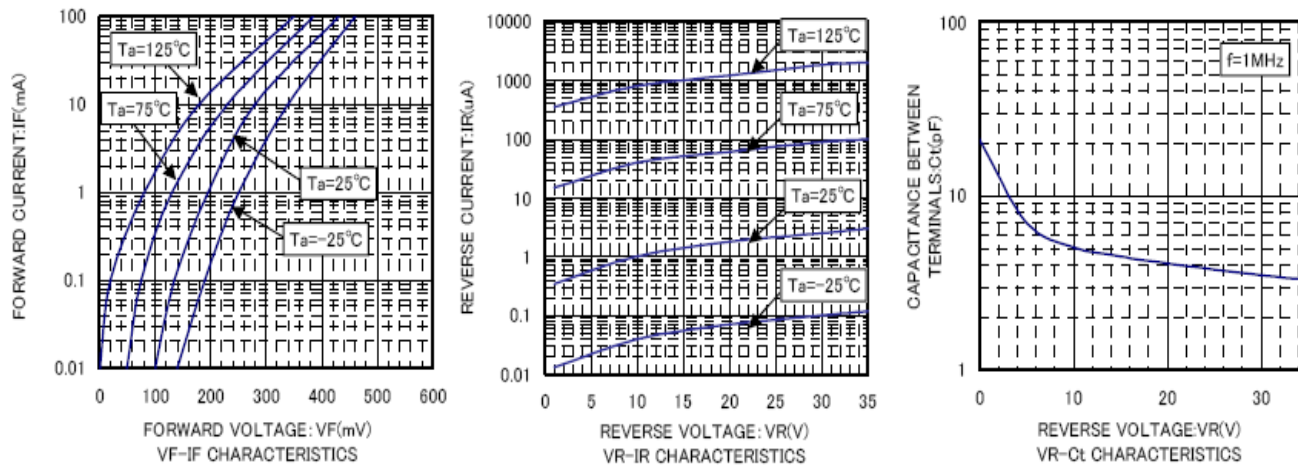
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F			0.55 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	$V_R=10V, f=1MHz$

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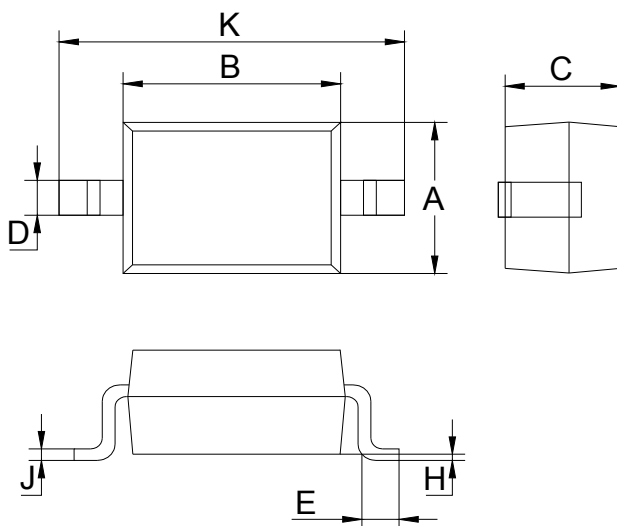
TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



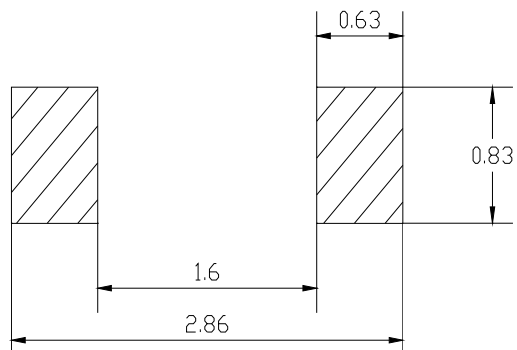
SOD-323		
Dim	Min	Max
A	1.275	1.325
B	1.675	1.725
C	0.9 Typical	
D	0.30 Typical	
E	0.27	0.37
H	0.02	0.1
J	0.1 Typical	
K	2.6	2.7
All Dimensions in mm		



Schottky Barrier Diode

RB501V-40

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
RB501V-40	SOD-323	3000/Tape&Reel