

UNISONIC TECHNOLOGIES CO., LTD

RB501V-40 Preliminary DIODE

SURFACE MOUNT SCHOTTKY DIODE

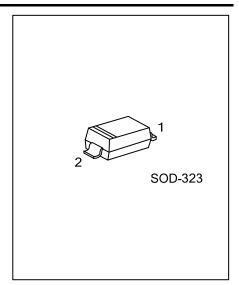
■ DESCRIPTION

The UTC **RB501V-40** is a surface mount schottky diode, it uses UTC's advanced technology to provide the customers with high switching speed and low forward voltage, etc.

The UTC RB501V-40 is suitable for automatic insertion, etc.



- * High switching speed
- * Low forward voltage



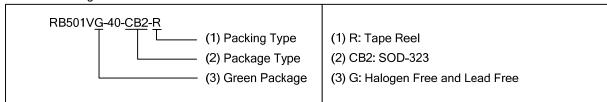
■ SYMBOL



■ ORDERING INFORMATION

Ordering Number	Package	Pin Assignment		Packing	
		1	2	Facking	
RB501VG-40-CB2-R	SOD-323	Α	K	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



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■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum Reverse Voltage	V_{RRM}	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	30	V
Maximum Forward Current	I _{F(AV)}	0.1	Α
Maximum Forward Peak Current (f=60Hz)	I _{FPM}	1	Α
Power Dissipation (Note 2)	P_{D}	0.4	W
Peak Forward Surge Current at t=8.3ms	I _{FSM}	500	mA
Junction Temperature	TJ	-55~+125	°C
Storage Temperature	T _{STG}	-55~+125	°C

Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient (Note 2)	θ_{JA}	300	°C/W

■ ELECTRICAL CHARACTERISTICS (T_J =25°C, unless otherwise noted)

	+	+				
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Leakage Current	I _R	V _R =10V			10	μΑ
Forward Voltage	VF	I _F =10mA			0.34	V
		I _F =100mA			0.55	٧
Total Capacitance	Ст	V _R =10V, f=1MHz		6		рF

^{2.} FR-5 board=1.0*0.75*0.062 in. Minimum pad layout.

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