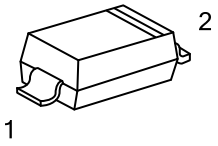
SURFACE MOUNT SCHOTTKY DIODE



SOD-323

■ DESCRIPTION

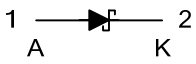
The UTC **RB501V-40** is a surface mount schottky diode, it uses UTC's advanced technology to provide the customers with high switching speed and low forward voltage, etc.

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

■ FEATURES

* High switching speed
* Low forward voltage

■ SYMBOL



■ ORDERING INFORMATION

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

Note: Pin Assignment: A: Anode K: Cathode

RB501VG-40-CB2-R (1) Packing Type (2) Package Type (3) Green Package	(1) R: Tape Reel (2) CB2: SOD-323 (3) L: Lead Free, G: Halogen Free and Lead Free

■ MARKING

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	A
Maximum Forward Peak Current (f=60Hz)	I_{FPM}	1	A
Power Dissipation (Note 2)	P_D	0.4	W
Peak Forward Surge Current at t=8.3ms	I_{FSM}	500	mA
Junction Temperature	T_J	-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.
2. FR-5 board=1.0*0.75*0.062 in. Minimum pad layout.

■ 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	μA
Forward Voltage	V_F	I_F=10mA			0.34	V
		I_F=100mA			0.55	V
Total Capacitance	C_T	V_R=10V, f=1MHz		6		pF