



RB520S40

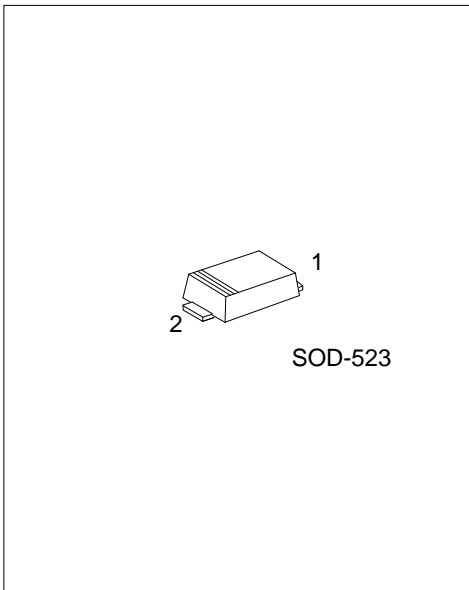
Preliminary

SCHOTTKY DIODE

SCHOTTKY BARRIER DIODE

■ FEATURES

- * Miniature surface mounting type
- * Low forward voltage drop
- * Low reverse leakage current
- * Fast switching speed



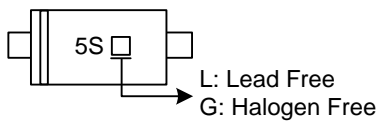
■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
RB520S40L-CC2-R	RB520S40G-CC2-R	SOD-523	A	K	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>RB520S40G-CC2-R</p> <ul style="list-style-type: none"> (1) Packing Type (2) Package Type (3) Green Package 	<ul style="list-style-type: none"> (1) R: Tape Reel (2) CC2 : SOD-523 (3) G: Halogen Free and Lead Free, L: Lead Free
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■ MARKING



■ **ABSOLUTE MAXIMUM RATINGS** (Single Diode @ $T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}	40	V
DC Blocking Voltage	V_R	40	V
Forward Continuous Current	I_{FM}	250	mA
Non-repetitive Peak Forward Surge Current (Note 3)	I_{FSM}	1.0	A
Junction Temperature	T_J	+125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +125	$^\circ\text{C}$

Note: 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.

■ **ELECTRICAL CHARACTERISTICS** ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	V_F	$I_F=20\text{mA}$			0.37	V
		$I_F=200\text{mA}$			0.60	V
Reverse Leakage Current	I_R	$V_R=10\text{V}$			1.00	μA
		$V_R=30\text{V}$			5.00	μA
Total Capacitance	C_T	$V_R=0\text{V}$, $f=1.0\text{MHz}$		50		pF
Reverse Recovery Time	t_{RR}	$I_F=I_R=200\text{mA}$, $I_{RR}=0.1 \times I_R$, $R_L=100\Omega$		10		ns

Note: Pulse width $\leq 300\mu\text{s}$, duty cycle $\leq 2\%$.

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