ΡΛΝ	JIT
	SEMI
	CONDUCTOR

RB520S40-AU SURFACE MOUNT SCHOTTKY BARRIER DIODES SOD-523 Voltage 40 V Current 0.25 A Features • Low Forward Voltage Drop • Negligible Reverse Recovery Time • Low Reverse Capacitance • Ultra-Small Mount Package Lead free in compliance with EU RoHS 2.0 • Green molding compound as per IEC 61249 standard • AEC-Q101 qualified **Mechanical Data** • Case: SOD-523 Package • Terminals: Solderable per MIL-STD-750, Method 2026 Cathod Anode • Approx. Weight: 0.00005 ounces, 0.0014 grams

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	V
Maximum Rms Voltage	V _{RMS}	28	V
Maximum Dc Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Current	I _{F(AV)}	0.25	A
Peak Forward Surge Current : 1 s Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	1	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0 V$	CJ	30	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	667	°C/W
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C



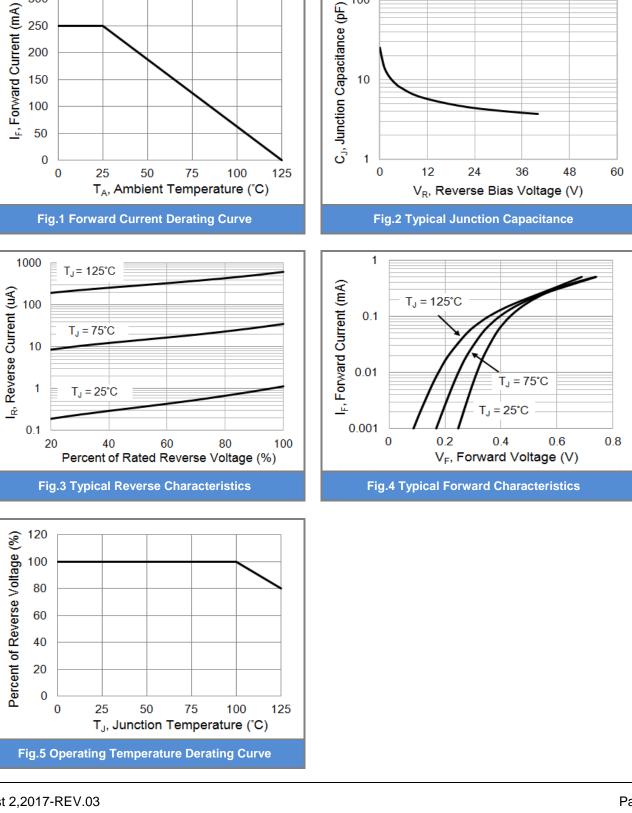


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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_{F} = 20 \text{ mA}, T_{J} = 25 \degree C$	-	-	0.37	V
		$I_F = 200 \text{ mA}, T_J = 25 \degree \text{C}$	-	-	0.6	
		$I_F = 20 \text{ mA}, T_J = 125 ^{\circ}\text{C}$	-	0.21	-	
		I _F = 200 mA, T _J = 125 °C	-	0.49	-	
Reverse Current I _R ⁽²⁾		$V_R = 10 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	1	uA
	$I_R^{(2)}$	$V_R = 30 V, T_J = 25 °C$	-	-	5	
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	0.6	-	mA
Reverse Recovery Time	T _{RR}	$I_{\rm F} = I_{\rm R} = 200 {\rm mA},$				
		$I_{RR} = 0.1 \text{ x } I_{R},$	-	10	-	ns
		R_L = 100 Ω , T_J = 25 °C				

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Short duration pulse test used to minimize self-heating effect



TYPICAL CHARACTERISTIC CURVES

RB520S40-AU



100



300

250



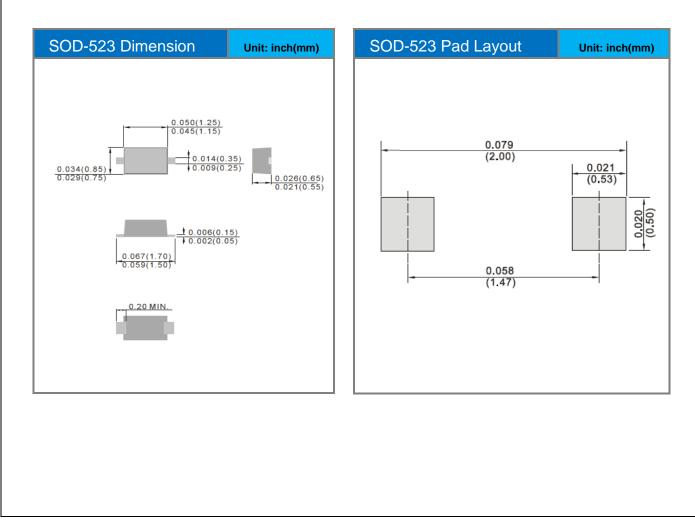


RB520S40-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
RB520S40-AU_R1_000A1	SOD-523	5K / 7" Reel	22	Halogen free

Packaging Information & Mounting Pad Layout





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RB520S40-AU

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