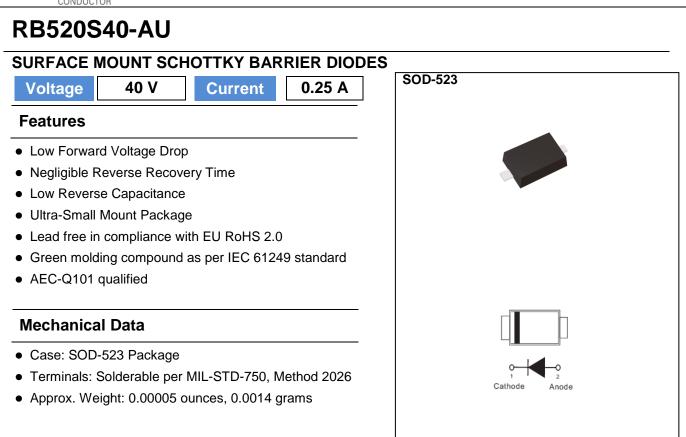
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Maximum Ratings and Thermal Characteristics (T_A = 25^oC unless otherwise noted)

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



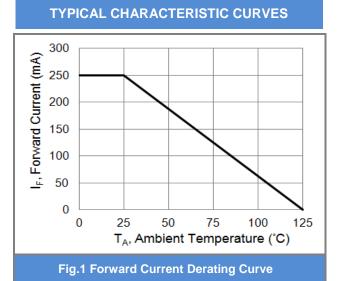
Electrical Characteristics (T_A = 25°C unless otherwise noted)

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





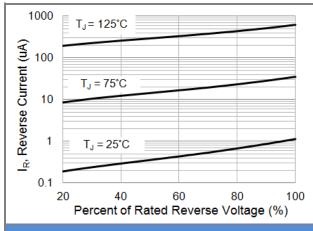
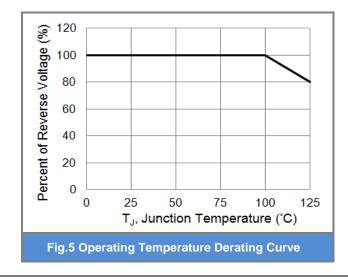


Fig.3 Typical Reverse Characteristics



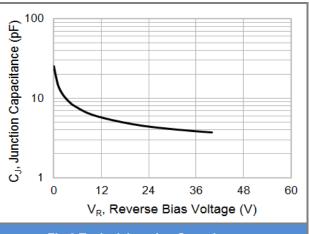


Fig.2 Typical Junction Capacitance

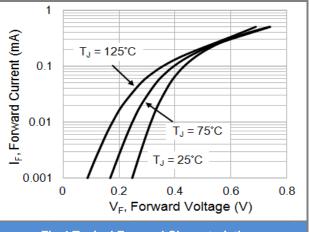


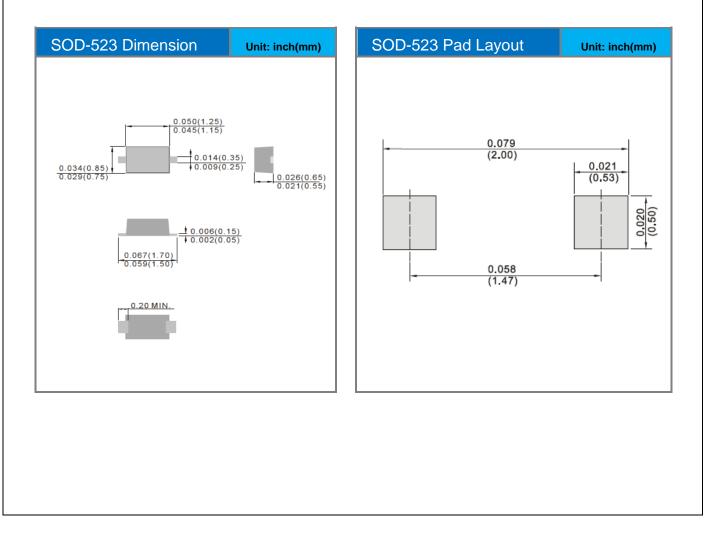
Fig.4 Typical Forward Characteristics



Product and Packing Information

Part No.	Package Type Packing Type		Marking
RB520S40-AU	SOD-523	5K / 7" Reel	22

Packaging Information & Mounting Pad Layout





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