SURFACE	MOUNT SCH	ΙΟΤΤΚΥ DIO	DES
Voltage	45 V	Current	0.1 A
Features			
Low forwar	d voltage drop		
 Deal for au 	tomated placem	nent	
 Low power 	loss, high effici	ency	
 High surge 	current capabil	ity	
 Lead free in 	n compliance wi	ith EU RoHS 2.0)
Green mole	ding compound	as per IEC 6124	49 standard
 AEC-Q101 	qualified		
			<u> </u>
Mechanic	al Data		
Case: SOE)-323 Package		
• Terminals:	Solderable per	MIL-STD-750, N	Method 2026
 Polarity: Co 	olor band denote	es cathode end	
Approx. We	eight: 0.00014 o	ounces, 0.0041 g	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}	45	V
Maximum Rms Voltage	V _{RMS}	32	V
Maximum Dc Blocking Voltage	V _{DC}	45	V
Maximum Average Forward Current	I _{F(AV)}	0.1	А
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	1	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	8	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	650	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





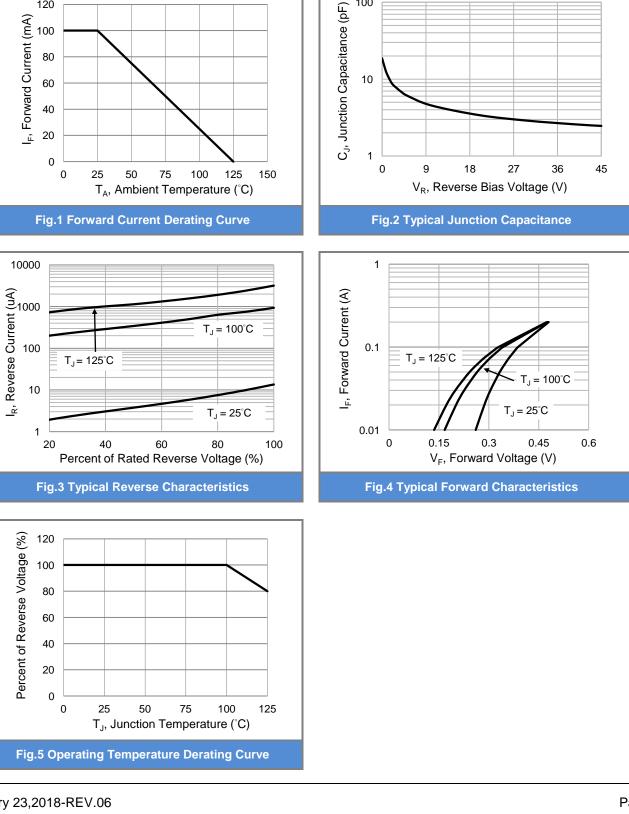


Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER SYMBOL		TEST CONDITION	MIN.	TYP.	MAX.	UNITS
		$I_F = 10 \text{ mA}, T_J = 25 \degree C$	-	-	0.34	V
		$I_F = 100 \text{ mA}, T_J = 25 \degree \text{C}$	-	-	0.55	
Forward Voltage	V _F	$I_F = 10 \text{ mA}, T_J = 100^{\circ}\text{C}$	-	0.17	-	
		$I_F = 100 \text{ mA}, T_J = 100^{\circ}\text{C}$	-	0.34	-	
	I _R ⁽²⁾	$V_R = 10 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	10	uA
Reverse Current		$V_R = 45 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	100	
		$V_{R} = 45 \text{ V}, \text{ T}_{J} = 100 ^{\circ}\text{C}$	-	950	-	

NOTES:

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



100

10

TYPICAL CHARACTERISTIC CURVES

PANJ SEMI CONDUCTOR

120

100 80

60



RB501V-40-AU

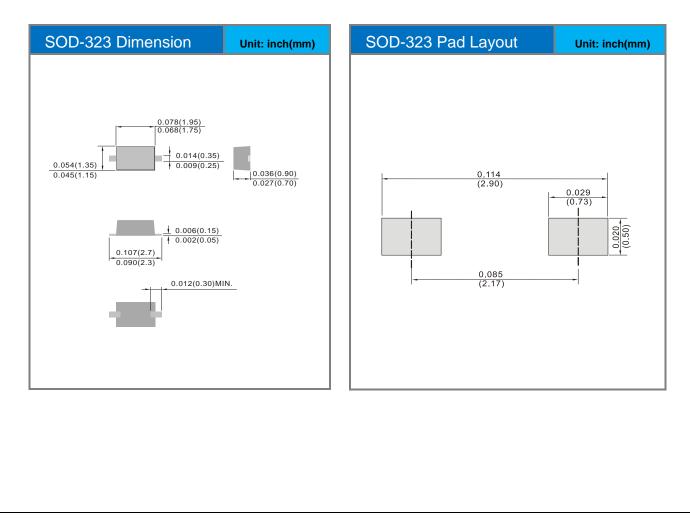




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
RB501V-40-AU_R1_000A1	SOD-323	5K / 7" Reel	501	Halogen free

Packaging Information & Mounting Pad Layout





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