

SURFACE MOUNT SCHOTTKY DIODES

Voltage 40 V Current 0.3 A

Features

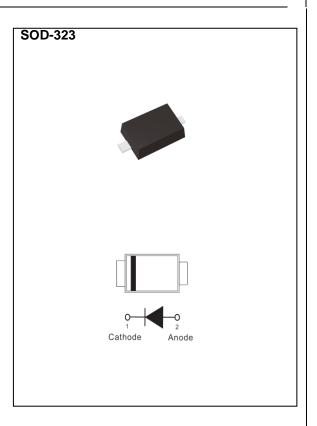
- Extremely fast switching speed
- Surface mount package ideally suited for autmatic insertion
- High conductor
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: SOD-323 Package

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.00014 ounces, 0.0041 grams



Maximum Ratings and Thermal Characteristics (T_A = 25°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)}	0.3	А
Peak Forward Surge Current : 1 s Single Half Sine- Wave Superimposed On Rated Load	IFSM	0.6	Α
Maximum Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0 \text{ V}$	CJ	5	pF
Typical Thermal Resistance	R _{θJA} ⁽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°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 1 mA, T _J = 25 °C	-	-	0.37	. V
		I _F = 1 mA, T _J = 125 °C	-	0.21	-	
		I _F = 10 mA, T _J = 125 °C	-	0.35	-	
		I _F = 40 mA, T _J = 125 °C	-	0.55	ı	
Reverse Current	I _R ⁽²⁾	V _R = 30 V, T _J = 25 °C	-	1	0.5	uA
		V _R = 40 V, T _J = 25 °C	-	-	1	
		V _R = 40 V, T _J = 125 °C	-	22	1	

NOTES:

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

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TYPICAL CHARACTERISTIC CURVES

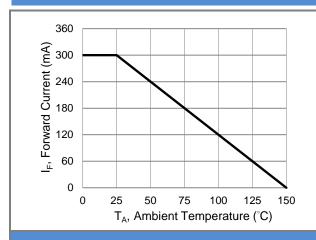


Fig.1 Forward Current Derating Curve

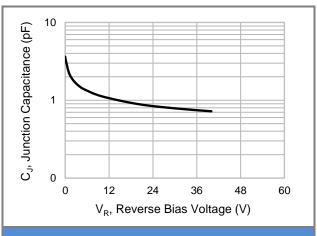


Fig.2 Typical Junction Capacitance

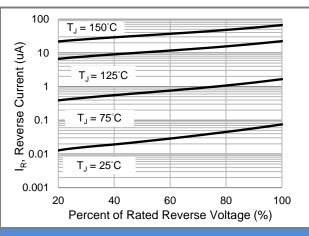


Fig.3 Typical Reverse Characteristics

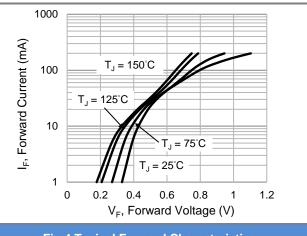


Fig.4 Typical Forward Characteristics

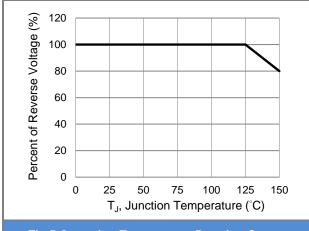


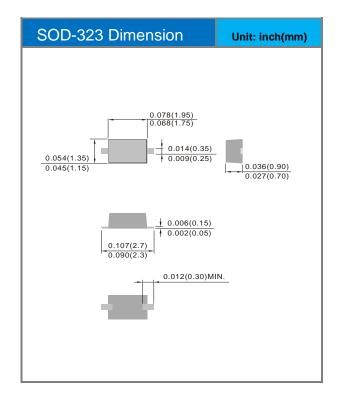
Fig.5 Operating Temperature Derating Curve

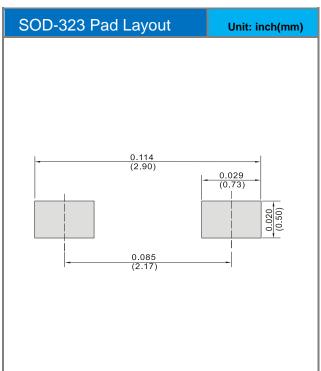


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
RB751V-40-AU	SOD-323	5K / 7" Reel	P60

Packaging Information & Mounting Pad Layout





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