

SCHOTTKY BARRIER RECTIFIER

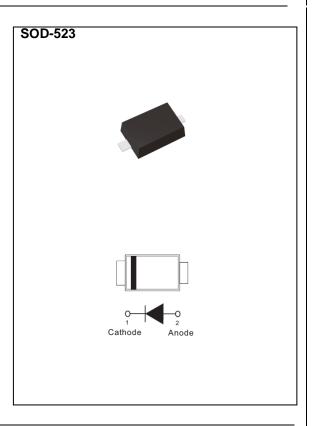
Voltage 30 V Current 0.2 A

Features

- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- 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
- Approx. Weight: 0.00005 ounces, 0.0014 grams



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Maximum Rms Voltage	V_{RMS}	21	V
Maximum Dc Blocking Voltage	V _{DC}	30	V
Maximum Average Forward Current	I _{F(AV)}	0.2	А
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 $V_R = 4 \text{ V}$	C₁	8	pF
Typical Thermal Resistance	R _{0JA} (1)	710	°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	VF	I _F = 10 mA, T _J = 25 °C	-	ı	0.35	· V
		I _F = 200 mA, T _J = 25 °C	-	1	0.5	
		I _F = 10 mA, T _J = 100 °C	-	0.16	-	
		I _F = 200 mA,T _J = 100 °C	-	0.44	-	
Reverse Current I	I _R ⁽²⁾	V _R = 10 V, T _J = 25 °C	-	ı	10	uA
		V _R = 30 V, T _J = 25 °C	-	ı	100	
		V _R = 30 V, T _J = 100 °C	-	670	ı	

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

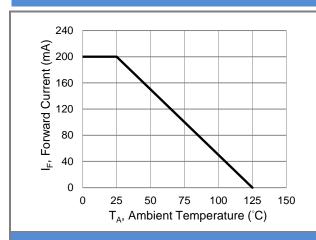


Fig.1 Forward Current Derating Curve

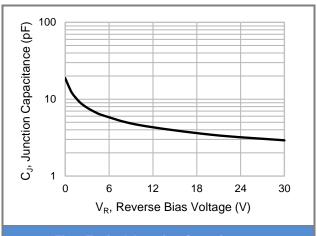


Fig.2 Typical Junction Capacitance

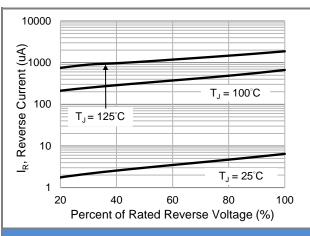


Fig.3 Typical Reverse Characteristics

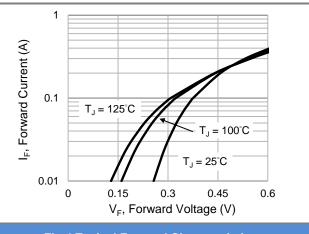


Fig.4 Typical Forward Characteristics

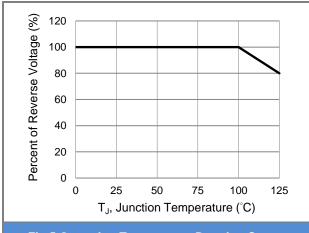


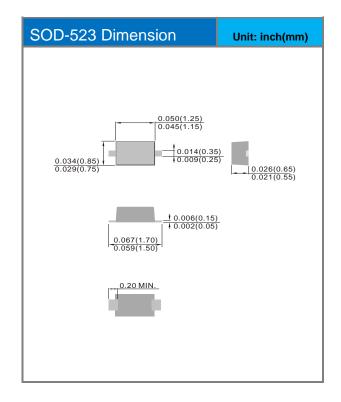
Fig.5 Operating Temperature Derating Curve

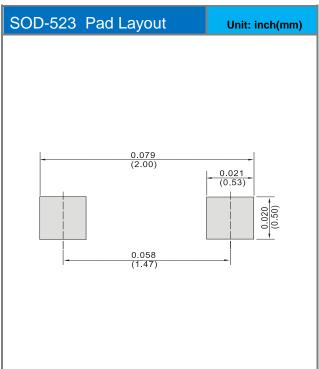


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
RB521S30-AU	SOD-523	5K pcs / 7" reel	21

Packaging Information & Mounting Pad Layout







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