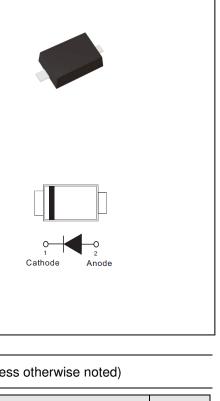
RB521S30-AU						
SCHOTTKY	BARRIER	RECTIFIER				
Voltage	30 V	Current	0.2 A	SOD-523		
Features						
Low forward	voltage drop					

- 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

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 $V_R = 4 V$	CJ	8	pF
Typical Thermal Resistance	$R_{ extsf{ heta}JA}^{(1)}$	710	°C/W
Operating Junction Temperature Range	TJ	-55~125	°C
Storage Temperature Range	T _{STG}	-55~125	°C



CONDUCTOR

PAN





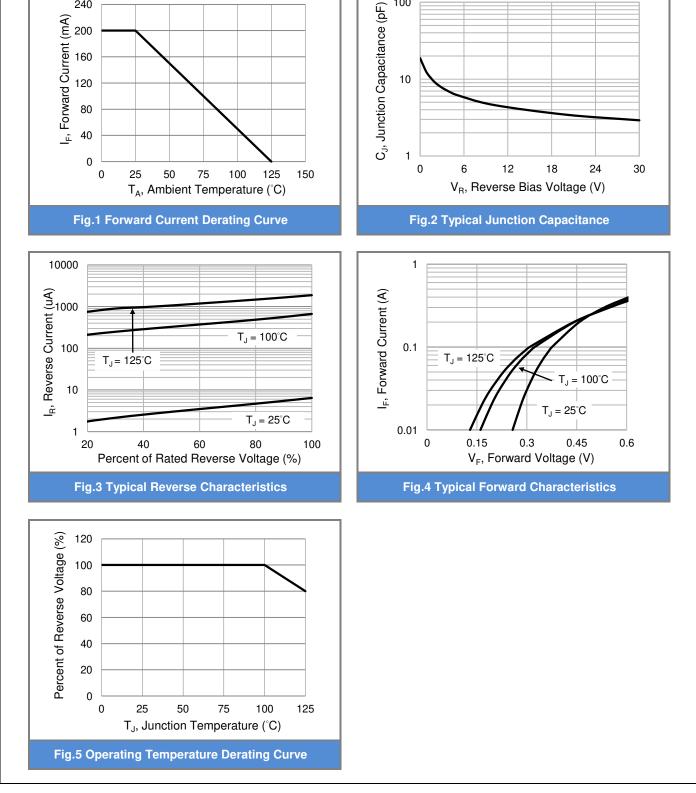
RB521S30-AU

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
	V _F	$I_F = 10 \text{ mA}, T_J = 25 \degree C$	-	-	0.35	V
		$I_F = 200 \text{ mA}, \text{T}_J = 25 ^{\circ}\text{C}$	-	-	0.5	
Forward Voltage		$I_F = 10 \text{ mA}, T_J = 100 ^{\circ}\text{C}$	-	0.16	-	
		I _F = 200 mA,T _J = 100 °C	-	0.44	-	
	I _R ⁽²⁾	$V_{R} = 10 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	10	uA
Reverse Current		$V_{R} = 30 V, T_{J} = 25 °C$	-	-	100	
		$V_{R} = 30 \text{ V}, \text{T}_{J} = 100 ^{\circ}\text{C}$	-	670	-	

NOTES:

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



100

TYPICAL CHARACTERISTIC CURVES

RB521S30-AU

240



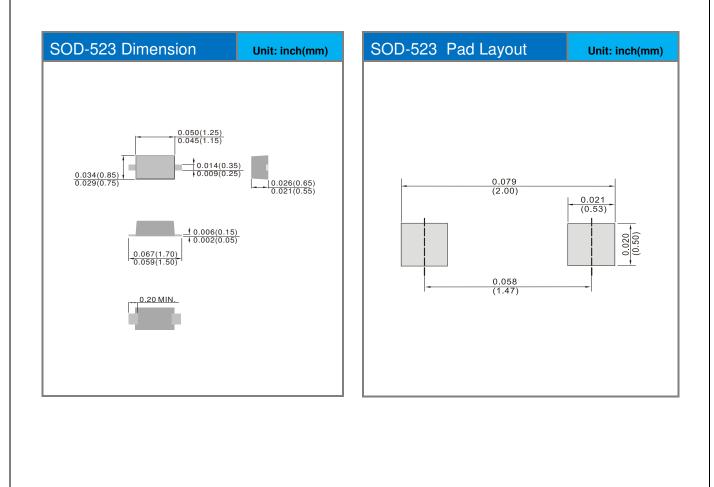


RB521S30-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
RB521S30-AU_R1_000A1	SOD-523	5K pcs / 7" reel	21	Halogen free

Packaging Information & Mounting Pad Layout





RB521S30-AU

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