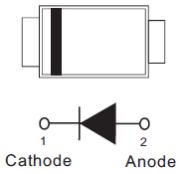
RB720M-30-AU

SCHOTTKY BARRIER RECTIFIER

Voltage	30 V	Current	0.1 A

SOD-923



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-923 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00002 ounces, 0.0005 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	$I_{F(AV)}$	0.1	A
Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	1	A
Typical Junction Capacitance Measured at 1 MHZ And Applied V_R = 4 V	C_J	6	pF
Typical Thermal Resistance	$R_{\theta JA}$ (1)	800	°C/W
Operating Junction Temperature Range	T_J	-55~125	°C
Storage Temperature Range	T_{STG}	-55~125	°C

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	I_F = 10 mA, T_J = 25 °C	-	-	0.35	V
		I_F = 10 mA, T_J = 100 °C	-	0.23	-	
Reverse Current	I_R (2)	V_R = 10 V, T_J = 25 °C	-	-	1	uA
		V_R = 30 V, T_J = 25 °C	-	-	20	
		V_R = 30 V, T_J = 100 °C	-	140	-	

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

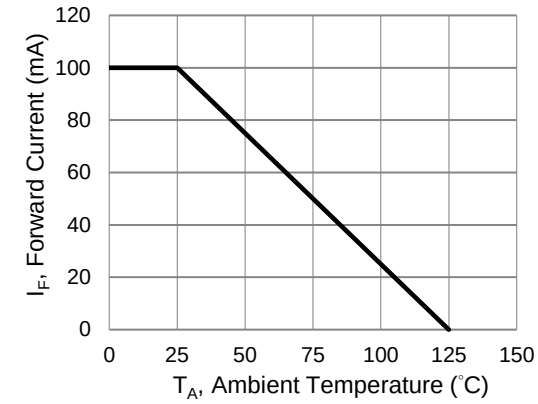


Fig.1 Forward Current Derating Curve

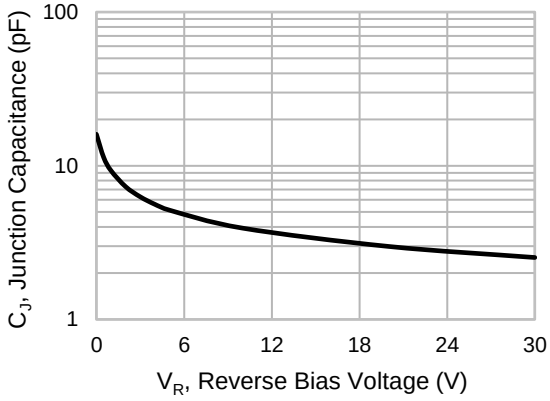


Fig.2 Typical Junction Capacitance

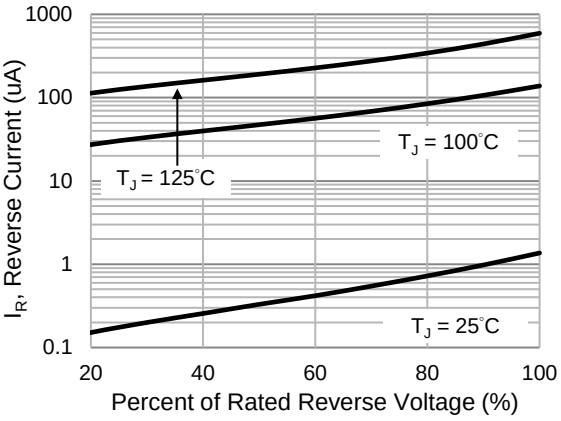


Fig.3 Typical Reverse Characteristics

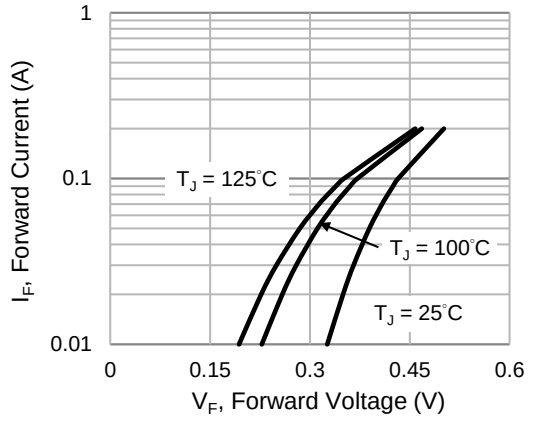


Fig.4 Typical Forward Characteristics

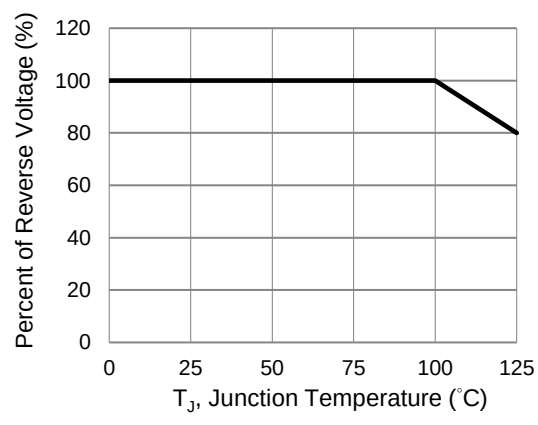


Fig.5 Operating Temperature Derating Curve

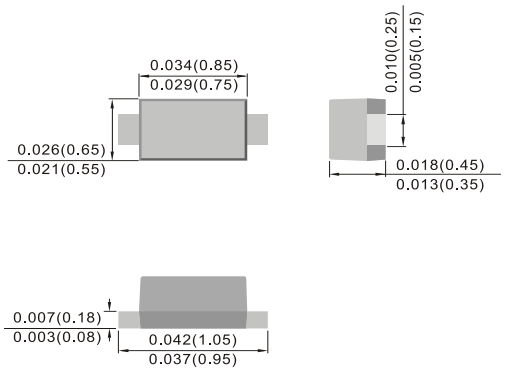
RB720M-30-AU

Product and Packing Information

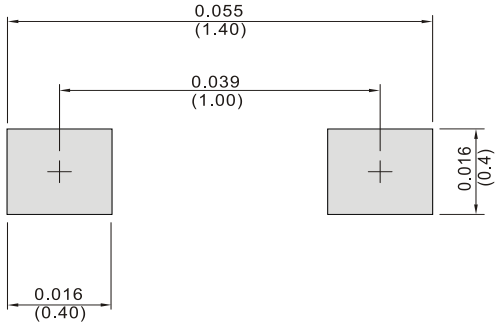
Part No.	Package Type	Packing Type	Marking
RB720M-30-AU	SOD-923	8K / 7" Reel	J

Packaging Information & Mounting Pad Layout

SOD-923 Dimension — Unit: inch(mm)



SOD-923 Pad Layout — Unit: inch(mm)



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