

100mA Surface Mount Small Signal Diodes

■ Features

- · Low current rectification and high speed switching.
- Extremely small surface mount type.
- Up to 100mA current capability.
- Silicon epitaxial planar chip, metal silicon junction.
- Suffix "G" indicates Halogen-free part, ex.RB520DG.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

· Case: Molded plastic, SOD-923

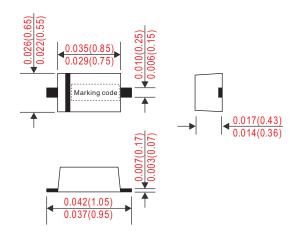
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

MIL-5 I D-750, Method 202

Polarity: Indicated by cathode bandWeight: Approximated 0.00044 gram

Outline

SOD-923



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	RB520D	LINIT	
Marking code		E	UNIT	
Maximum Recurrent Peak Reverse Voltage	V _{RM}	30	V	
Continuous reverse voltage	V _R	30	_ v	
Maximum Instantaneous Forward Voltage@10mA DC	V _F	0.45	V	
Power Dissipation	P _D	150	mW	
Thermal resistance junction to ambient	R _{eJA}	520	°C/W	
Operating Temperature	T,	-40 ~ +125	°C	
Storage temperature	T _{STG}	-40 ~ +125	°C	

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Mean rectifying current		Io			100	mA
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			500	mA
Reverse current	V _R = 10V DC	I _R			0.5	uA

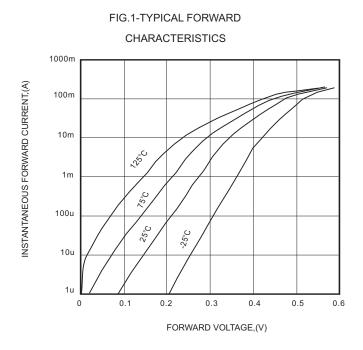
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■ Rating and characteristic curves



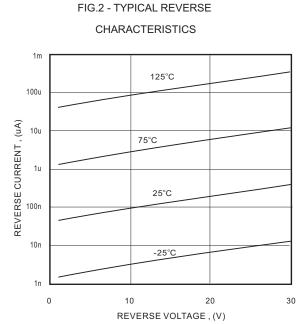
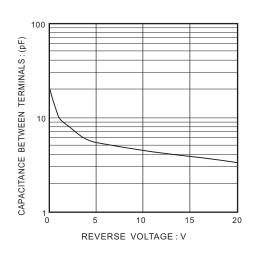


FIG.3-TYPICAL TERMINALS CAPACITANCE



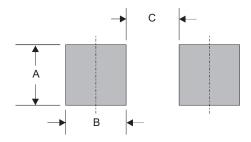
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Revision : C



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■ SOD-923 foot print



Α	В	С
0.016 (0.40)	0.012 (0.30)	0.024 (0.60)

Dimensions in inches and (millimeters)

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