

500mA Surface Mount Small Signal Diodes

■ Features

- Low forward voltage and low reverse current.
- Extremely high switching speed.
- · High reliability.
- Low forward voltage drop .
- Schottky barrier diodes encapsulated in a SOD-323 package.
- Suffix "G" indicates Halogen-free part, ex.RB551VG.
- Lead-free parts meet environmental standards of MIL-STD-19500/228

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

· Case: Molded plastic, SOD-323

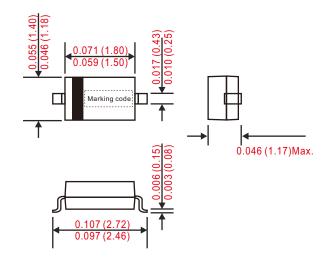
• Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

• Polarity : Indicated by cathode band

• Weight: 0.0002 ounce, 0.005 gram

Outline

SOD-323



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	RB551V	LINUT	
Marking code		D, 2V, K	UNIT	
Peak reverse voltage	V _{RM}	30	V	
DC reverse voltage	V _R	20	V	
Average rectifier forward current	Io	500	m A	
Peak forward surge current	I _{FSM}	2000	mA	
Operation junction temperature range	T _J	125	°c	
Storage temperature range	T _{STG}	-40 ~ +125		

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage	I _F = 100mA	V _F			370	mV
	I _F = 500mA				470	
Reverse leakage	V _R = 20V	I _R			100	uA

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■ Rating and characteristic curves

Fig. 1 Forward characteristics

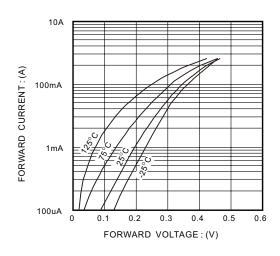


Fig. 2 Reverse characteristics

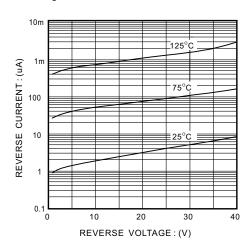


FIG.3-TYPICAL TERMINALS CAPACITANCE

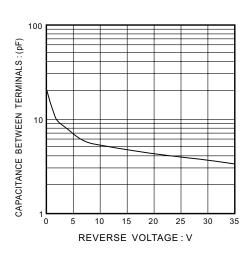
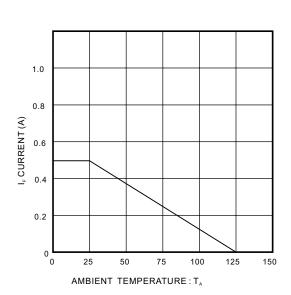


Fig. 4 Derating curve



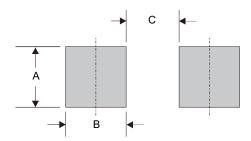
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■ SOD-323 foot print



А	ВС	
0.059 (1.50)	0.039 (1.00)	0.051 (1.30)

Dimensions in inches and (millimeters)

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