



Schottky Barrier Diode



Features

- For Power Supply
- Moisture Sensitivity Level 1
- Low Voltage, Low Inductance

Mechanical Data

• Package: SOD-323

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Polarity: Cathode line denotes the cathode end

• Marking: D4

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
DC Blocking Voltage	V _R	V		40
Non-repetitive Peak forward surge current	I _{FSM}	Α		2
Average forward current	I _{FAV}	Α		0.5
Power Dissipation	P _D	mW		200
Thermal Resisitance Junction to Ambient Air	R _{0JA}	°C/W		500
Junction temperature	T _j	°C		125
Storage temperature range	T _{stg}	°C		-55 to +150

^{*}Part mounted on FR-4 board with recommended pad layout.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB551V-40	F2	Approximate 0.004	3000	30000	120000	7" reel

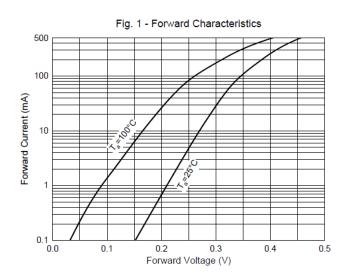


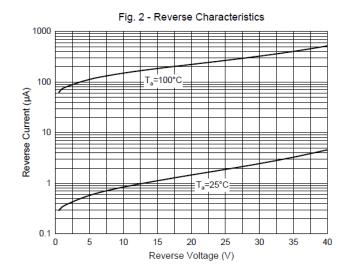


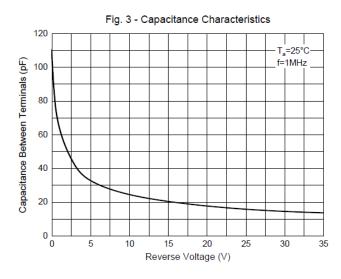
■Electrical Characteristics (Ta=25°C Unless otherwise specified)

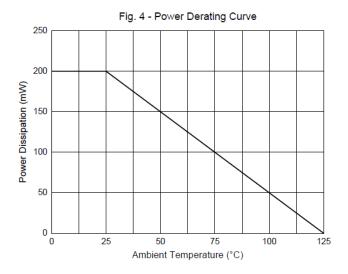
PARAMETER	Symbol	UNIT	Conditions	Min.	Тур.	Max.
Forward Voltage *	V_{F}	V	I _F =0.5A	-	-	0.47
Reverse Voltage	V_R	V	I _R =0.1mA	40		
Reverse Leakage Current	I _R	uA	V _R =40V	-	-	100

■ Typical Characteristics





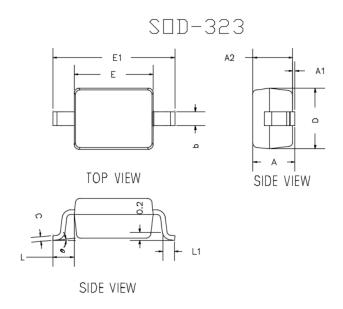






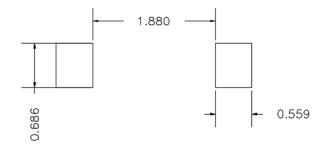


■ Outline Dimensions



DIMENSIONS					
DIM	INC	HES	ММ		
	MIN	MAX	MN	MAX	
А		0.0393		1.0000	
A1	0.0000	0.0039	0.0000	0.1000	
A2	0.0314	0.0354	0.8000	0.9000	
lo	0.0098	0.0157	0.2500	0.4000	
С	0.0031	0.0059	0.0800	0.1500	
D	0.0472	0.0551	1,2000	1,4000	
E	0.0629	0.0709	1.6000	1.8000	
E1	0.0984	0.1063	2.5000	2.7000	
L	0.018	7TYP	0.475TYP		
L1	0.0098	0.0157	0.250	0.400	
θ	0*	8*	0*	8*	

■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



RB551V-40

Disclaimer

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