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: DS

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Peak Repetitive Reverse Voltage	VRRM	V		30
DC Blocking Voltage	V _R	V	I _R =100uA	20
Non-repetitive Peak forward surge current	I _{FSM}	А	tp=8.3ms, half sine	2
Average forward current	Ifav	А		0.5
Power Dissipation	PD	mW		200
Thermal Resisitance Junction to Ambient Air	R _{0JA}	°C /W		500
Junction temperature	Tj	°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-30S	F2	Approximate 0.004	3000	30000	120000	7" reel

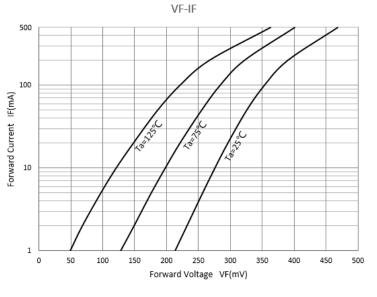
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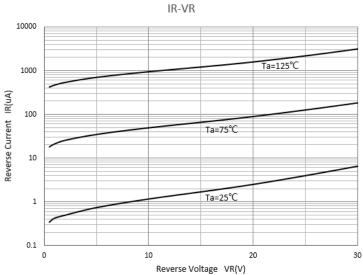
RB551V-30S

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

PARAMETER	Symbol	UNIT	Conditions	Min.	Тур.	Max.
Forward Voltage *	V _F	V	I _F =0.1A	-	-	0.37
			I _F =0.5A	-	-	0.47
Reverse Leakage Current	I _R	uA	V _R =20V	-	-	100

Typical Characteristics



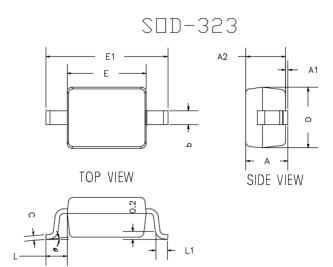


Cj-VR

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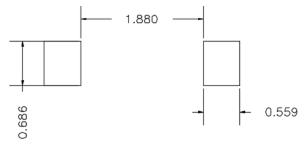
Outline Dimensions



		DIMENSIONS			
DIM	INC	HES	ММ		
	MIN	MAX	MN	MAX	
A		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	
c	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	0.0187TYP		0.475TYP		
L1	0.0098	0.0157	0.250	0.400	
θ	0*	8*	0°	8*	

SIDE VIEW

Soldering Footprint



UNIT: mm SUGGESTED SOLDER PAD LAYOUT



RB551V-30S

Disclaimer

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