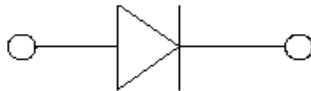


Schottky Barrier Diode



Features

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

Mechanical Data

- **Package:** SOD323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** D

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Peak Repetitive Reverse Voltage	V_{RRM}	V		30
DC Blocking Voltage	V_R	V	$I_R = 100\mu A$	20
Non-repetitive Peak forward surge current	I_{FSM}	A	$t_p = 8.3ms$, half sine	2
Average forward current	I_{FAV}	A		0.5
Power Dissipation	P_D	mW		200
Thermal Resisance Junction to Ambient Air	R_{thja}	°C/W		500
Maximum 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)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB551V-30	F2	Approximate 0.004	3000	30000	120000	7" reel

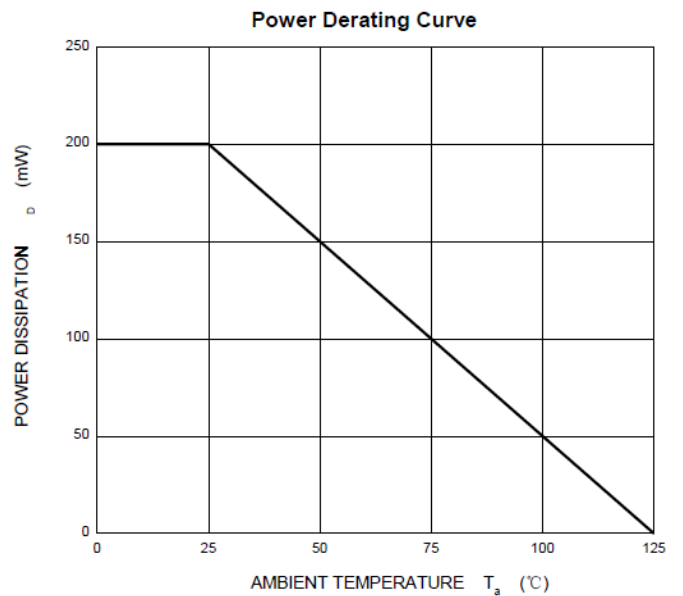
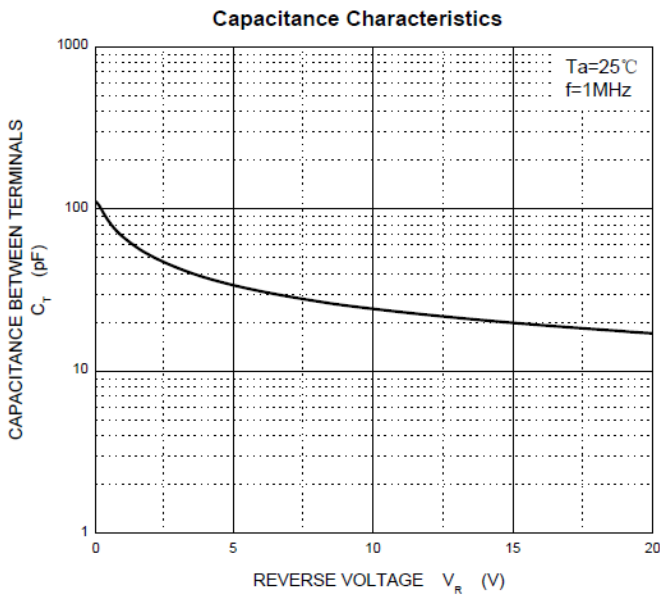
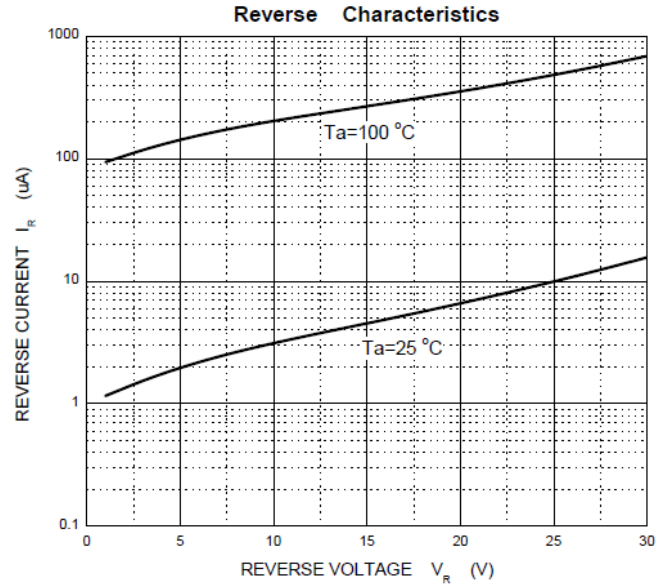
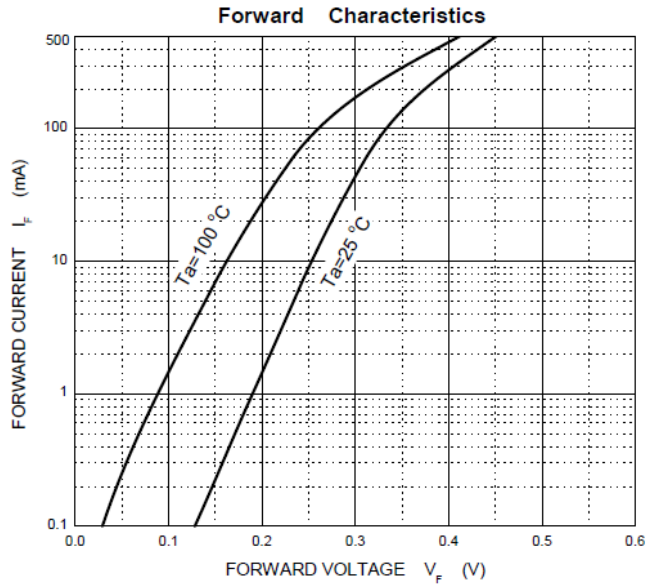


RB551V-30

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

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

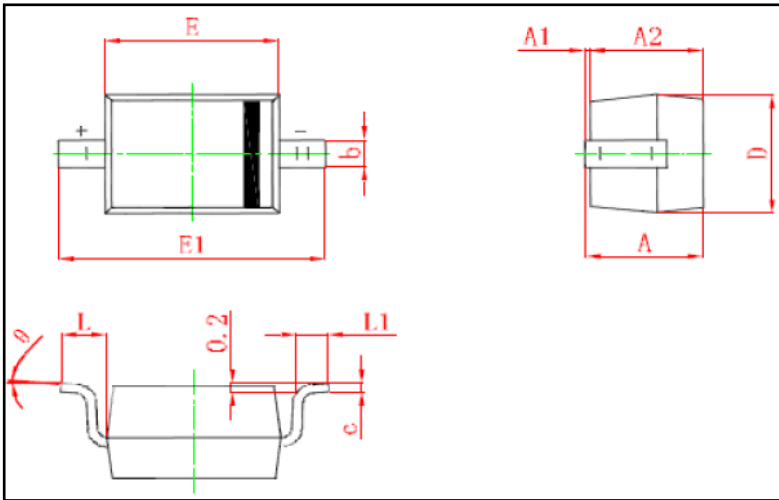
■ Typical Characteristics





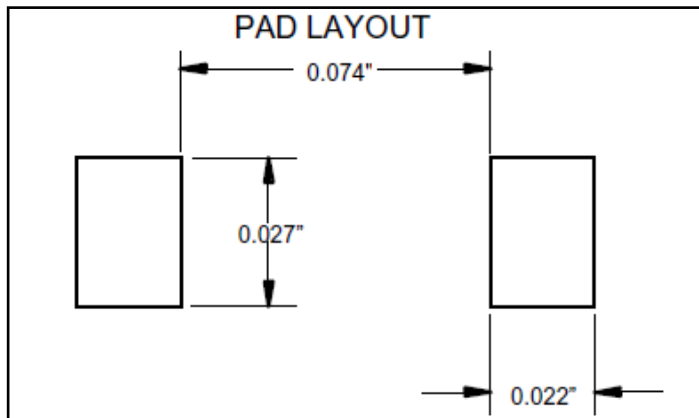
RB551V-30

■ Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

■ Soldering Footprint



Unit: inches



Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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