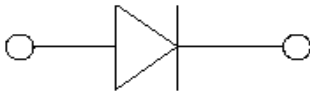


Schottky Barrier Diode



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}	A		2
Average forward current	I_{FAV}	A		0.5
Power Dissipation	P_D	mW		200
Thermal Resisance Junction to Ambient Air	$R_{\theta JA}$	°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)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB551V-40	F2	Approximate 0.0048	3000	30000	120000	7" reel



RB551V-40

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

PARAMETER	Symbol	UNIT	Conditions	Min.	Typ.	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	μA	V _R =40V	-	-	100

■ Typical Characteristics

Fig. 1 - Forward Characteristics

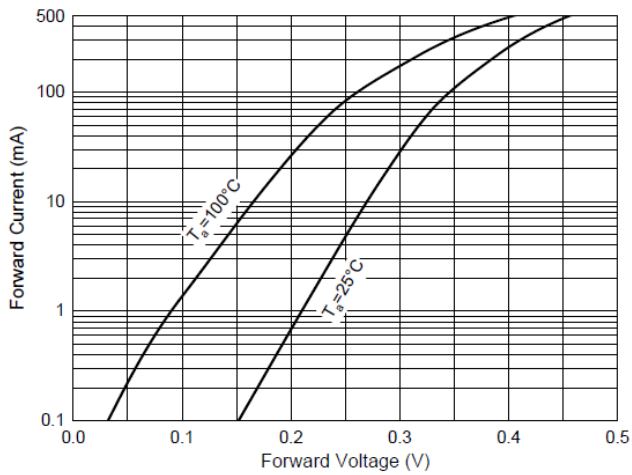


Fig. 2 - Reverse Characteristics

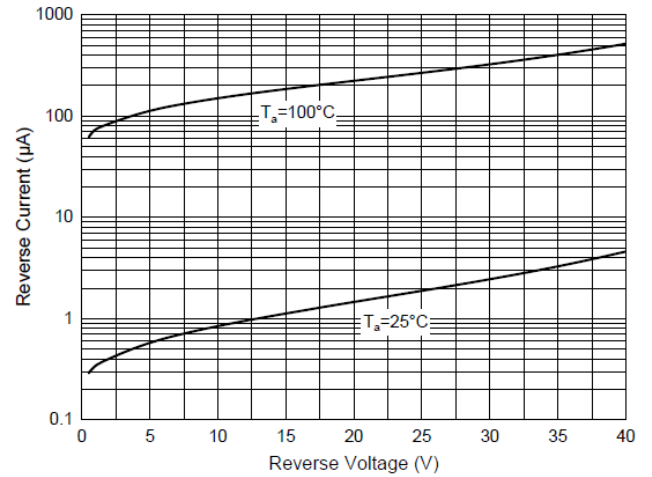


Fig. 3 - Capacitance Characteristics

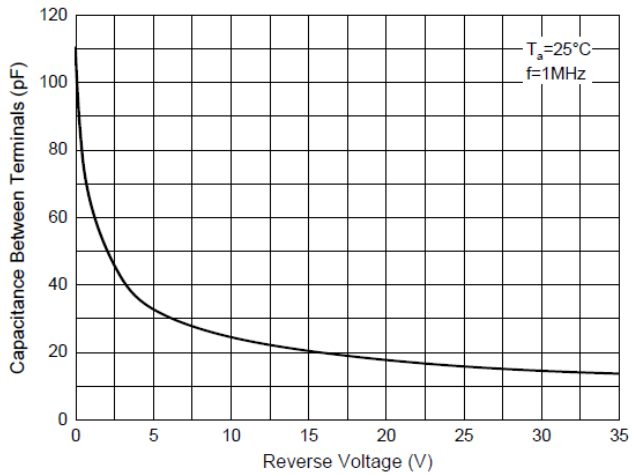
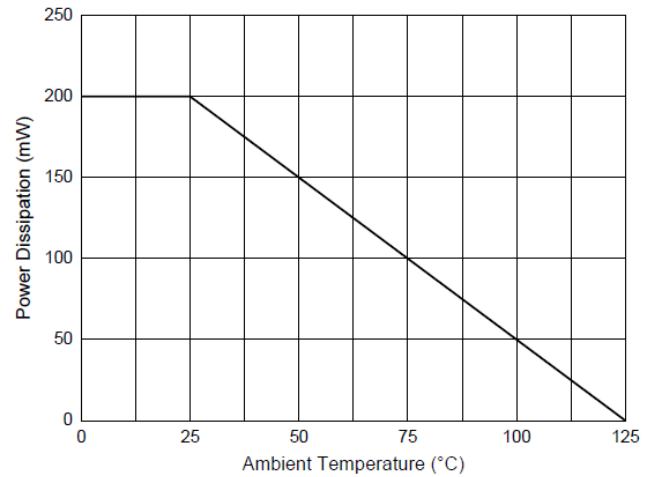


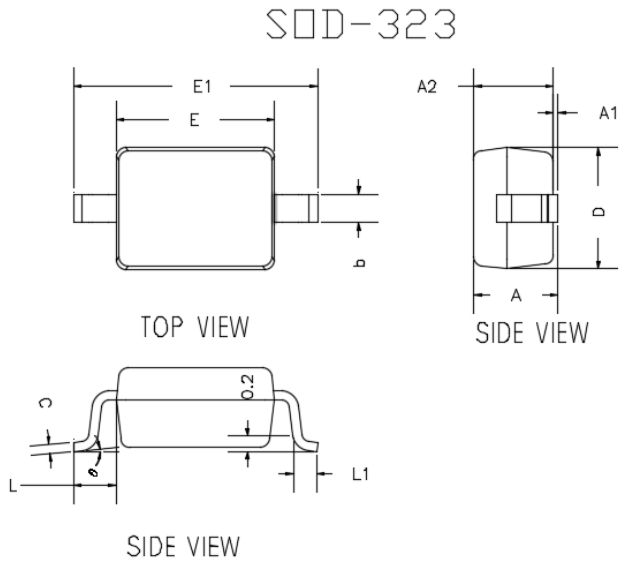
Fig. 4 - Power Derating Curve





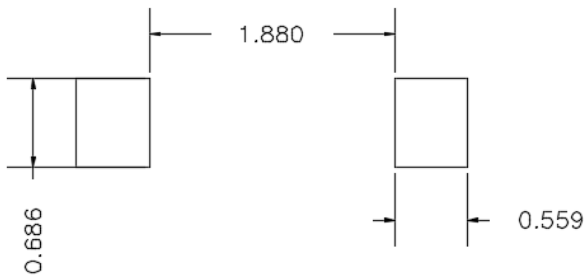
RB551V-40

■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	---	0.0393	---	1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	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
e	0°	8°	0°	8°

■ Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT



RB551V-40

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