

SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

Reverse Voltage - 40 V

Forward Current - 200mA

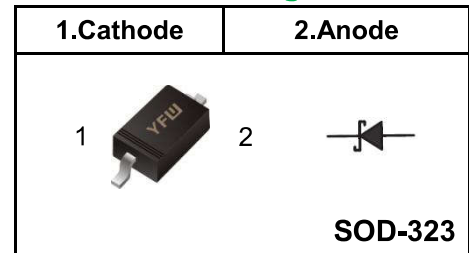
FEATURES

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

Applications

- High speed switching

Pinning



Marking Code

RB751V-40	S8
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Maximum Ratings and Electrical characteristics

Ratings at 25 ambient temperature unless o °C therwise specified.

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	40	V
Reverse Voltage	V_R	30	V
Mean Rectifying Current	I_o	30	mA
Peak Forward Surge Current (60 Hz for 1 Cyc.)	I_{FSM}	200	mA
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	- 40 to + 125	°C

Maximum Ratings and Electrical characteristics

Ratings at 25 ambient temperature unless o °C therwise specified.

Parameter	Symbol	Typ	Max	Unit
Forward Voltage at $I_F = 1 \text{ mA}$	V_F	-	0.37	V
Reverse Current at $V_R = 30 \text{ V}$	I_R	-	0.5	μA
Capacitance Between Terminals at $V_R = 1 \text{ V}, f = 1 \text{ MHz}$	C_T	2	-	pF

Note: ESD sensitive product handling required.

Ratings and Characteristic Curves

Fig.1 Power Derating Curve

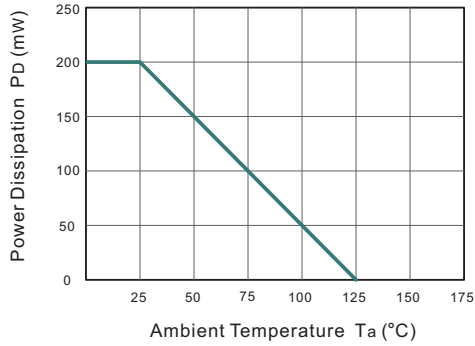


Fig.2 Typical Instaneous Reverse Characteristics

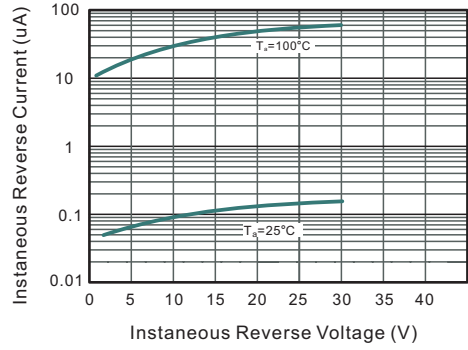


Fig.3 Typical Forward Characteristic

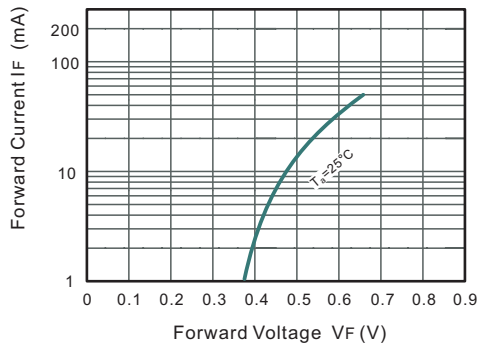
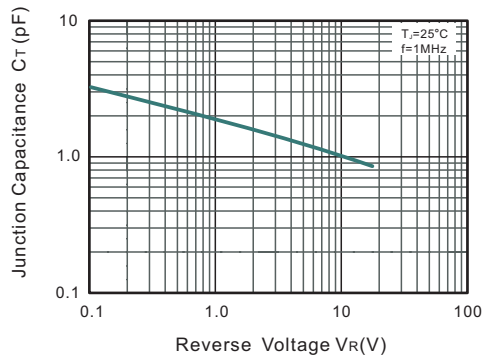


Fig.4 Typical Junction Capacitance



Ordering information

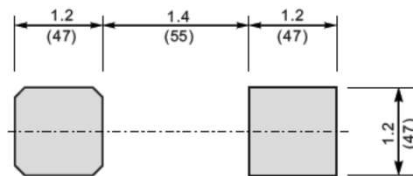
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



Unit: $\frac{\text{mm}}{\text{mil}}$

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