

SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

Reverse Voltage - 40 V

Forward Current - 200mA

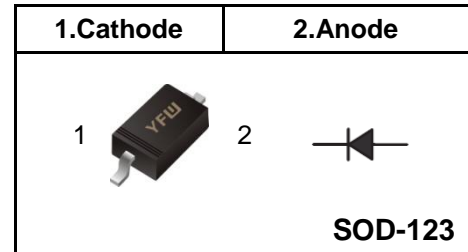
FEATURES

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

Applications

- High speed switching

Pinning



Marking Code

RB751W-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

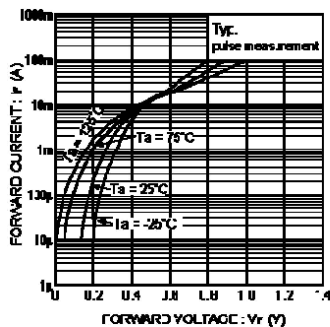


Fig. 1 Forward characteristics

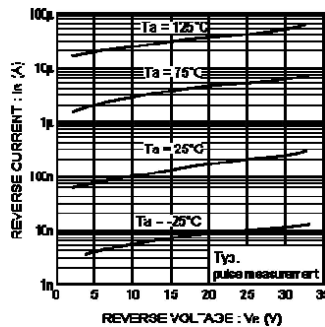


Fig. 2 Reverse characteristics

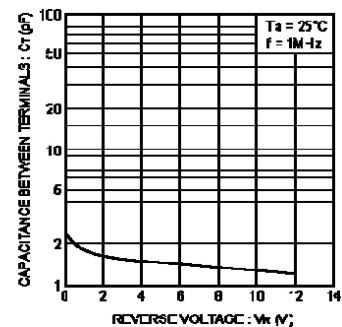


Fig. 3 Capacitance between terminals characteristics

Ordering information

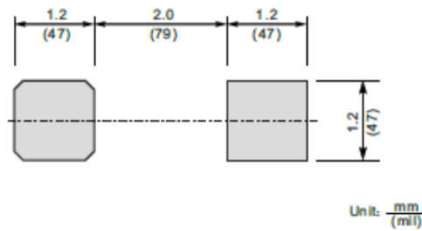
Package	Packing Description	Packing Quantity
SOD-123	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-123

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.3	35	51
C	0.09	0.22	3.5	8.7
D	1.5	1.8	59	71
E	2.5	2.8	98	110
E1	3.6	3.9	142	154
b	0.5	0.7	20	28
L1	0.25	0.45	10	18
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



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