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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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RB751V-40

$I_o = 30 \text{ mA}$

$V_R = 30 \text{ Volts}$

RoHS Device

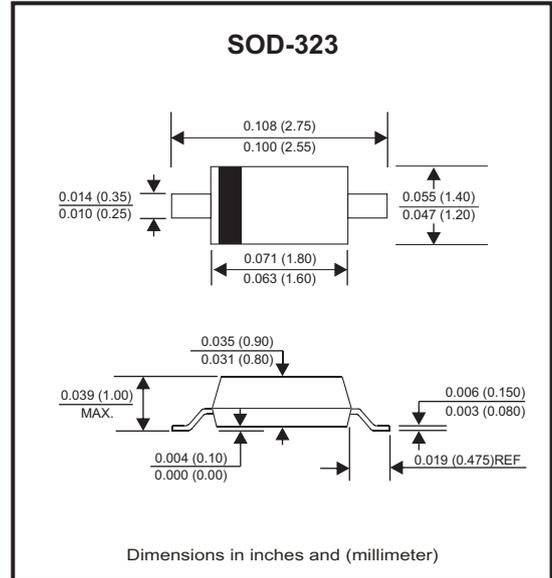


Features

- Low current rectifier.
- Low voltage, low inductance.
- For power supply.

Mechanical data

- Case: SOD-323, Standard package, molded plastic.
- Terminals: Solderable per MIL-STD-750, method 2026
- Mounting position: Any
- Weight: 0.01 grams(approx.)



Circuit diagram



Maximum Ratings (at Ta=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Limit	Unit
Peak reverse voltage		V_{RM}	40	V
DC reverse voltage		V_R	30	V
Mean rectifying current		I_o	30	mA
Non-repetitive peak forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	0.2	A
Power dissipation		P_D	200	mW
Thermal resistance	Junction to ambient	$R_{\theta JA}$	500	°C/W
Junction temperature range		T_J	-40 ~ +125	°C
Storage temperature range		T_{STG}	-55 ~ +150	°C

Electrical Characteristics (at Ta=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Forward voltage	$I_F=1\text{mA}$	V_F			0.37	V
Reverse current	$V_R=30\text{V}$	I_R			0.50	μA
Capacitance between terminals	$V_R=1\text{V}, f=1\text{MHz}$	C_T		2		pF

RATING AND CHARACTERISTIC CURVES (RB751V-40)

Fig.1 - Power Derating Curve

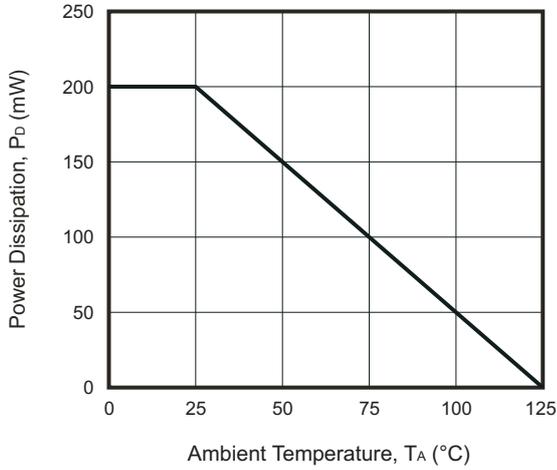


Fig.2 - Capacitance Characteristics

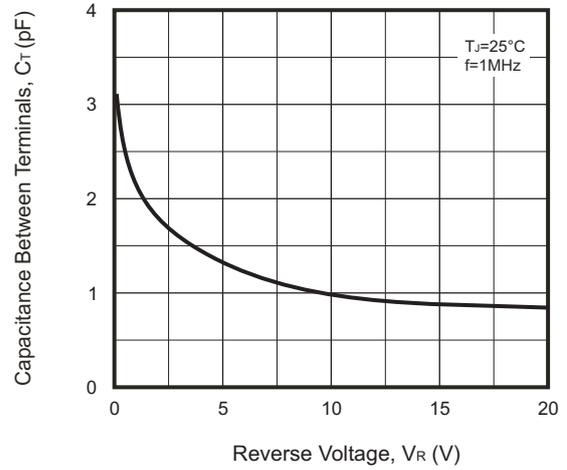


Fig.3 - Forward Characteristics

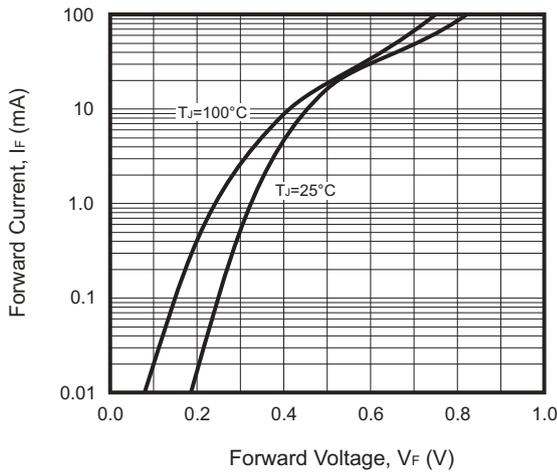
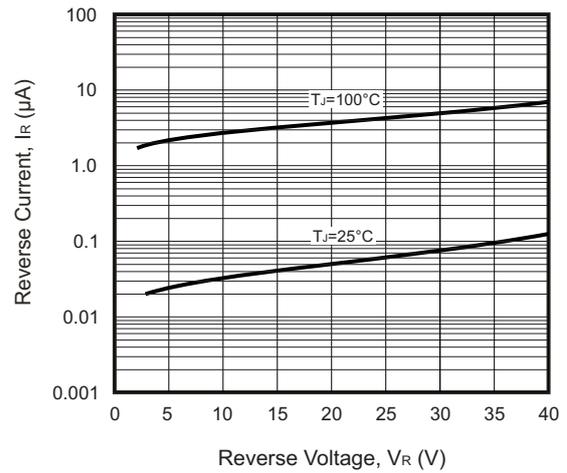
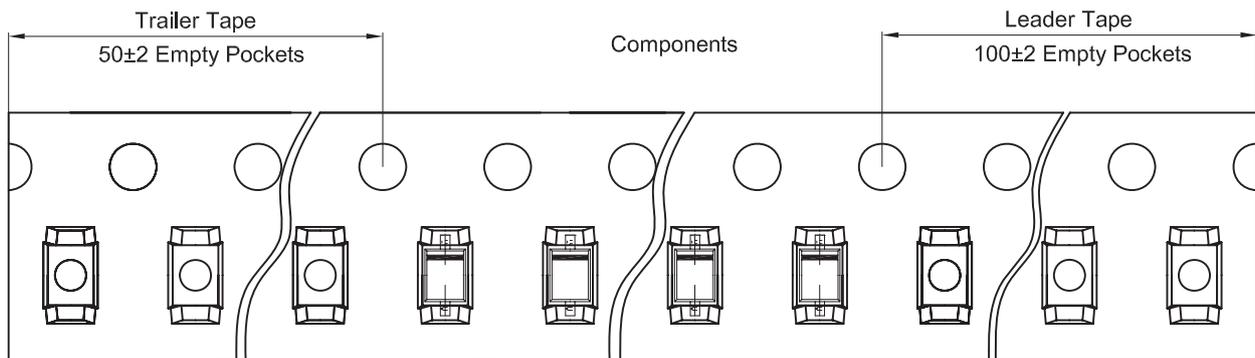
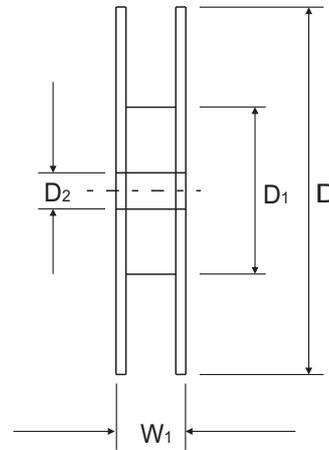
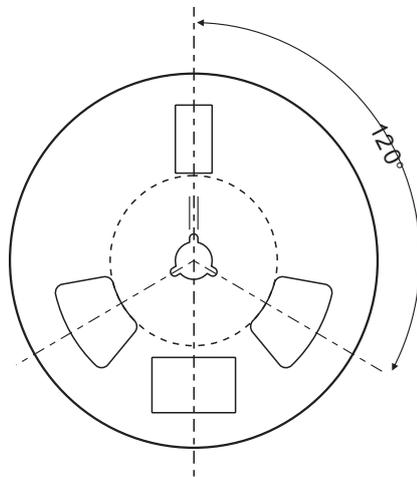
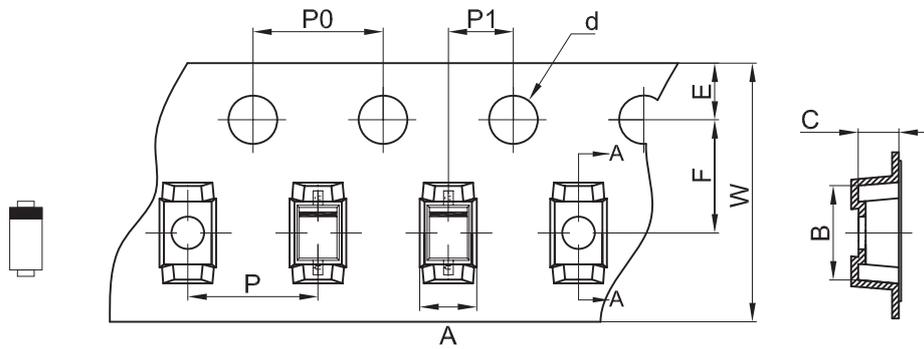


Fig.4 - Reverse Characteristics



Reel Taping Specification



SOD-323	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.48 ± 0.05	3.30 ± 0.05	1.25 ± 0.05	1.50 ± 0.10	178.00 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.058 ± 0.002	0.130 ± 0.002	0.049 ± 0.002	0.059 ± 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

SOD-323	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00 + 0.30 / - 0.10	12.30 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.158 ± 0.004	0.158 ± 0.004	0.079 ± 0.004	0.315 + 0.012 / - 0.004	0.484 ± 0.039

Marking Code

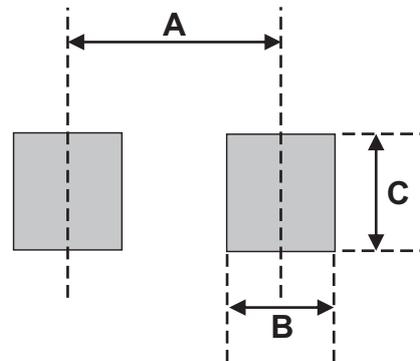
Part Number	Marking Code
RB751V-40	5



█ = The marking bar indicates the cathode.

Suggested PAD Layout

SIZE	SOD-323	
	(mm)	(inch)
A	2.15	0.085
B	0.70	0.028
C	0.70	0.028



Note:

1. General tolerance: $\pm 0.05\text{mm}$.
2. The pad layout is for reference purposes only.

Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOD-323	3,000	7