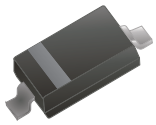
RB751V-40

Io = 30 mA
V_R = 30 Volts
RoHS Device



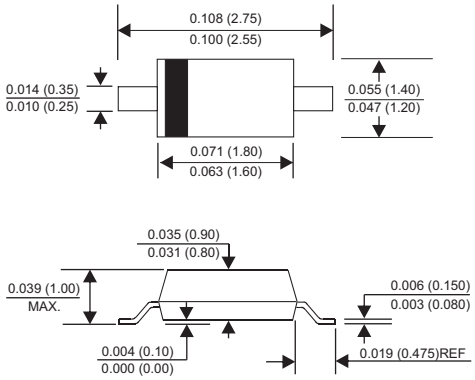
Features

- 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.)

SOD-323



Dimensions in inches and (millimeter)

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=1mA	V_F			0.37	V
Reverse current	V_R=30V	I_R			0.50	μA
Capacitance between terminals	V_R=1V, f=1MHz	C_T		2		pF

Company reserves the right to improve product design , functions and reliability without notice.

RATING AND CHARACTERISTIC CURVES (RB751V-40)

Fig.1 - Power Derating Curve

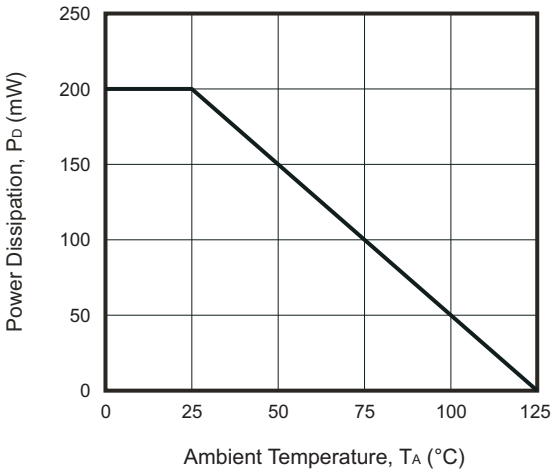


Fig.2 - Capacitance Characteristics

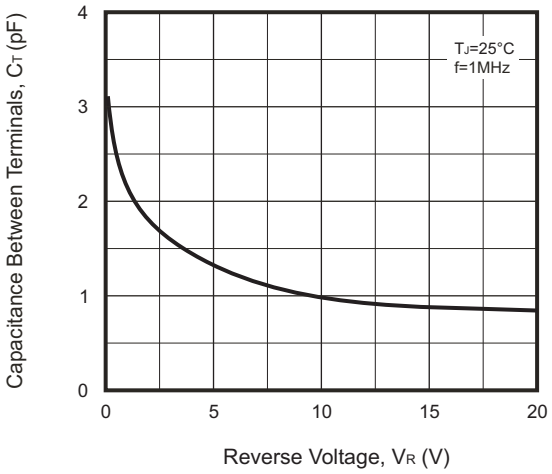


Fig.3 - Forward Characteristics

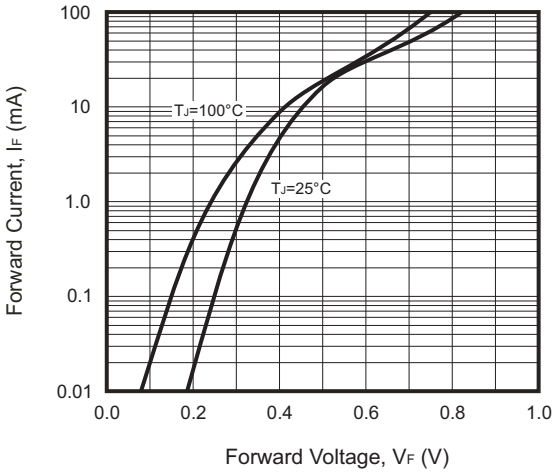
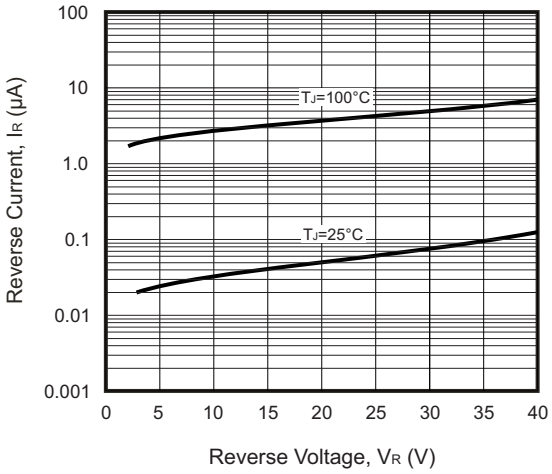
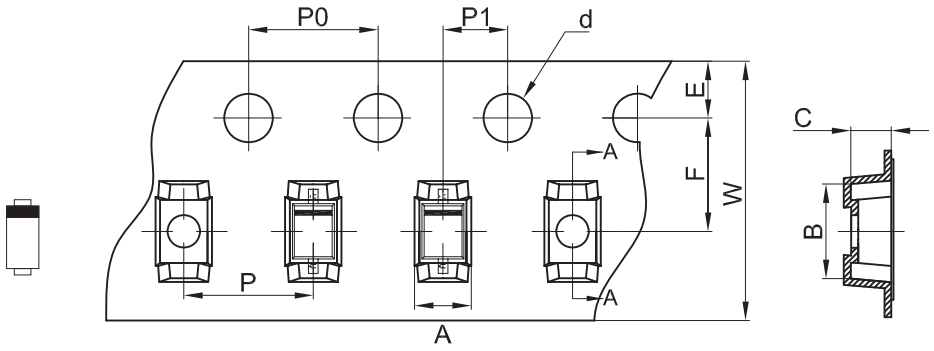
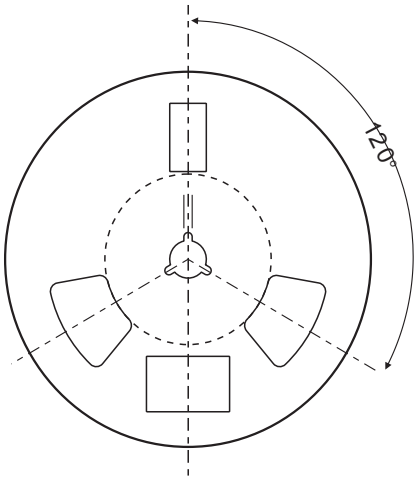


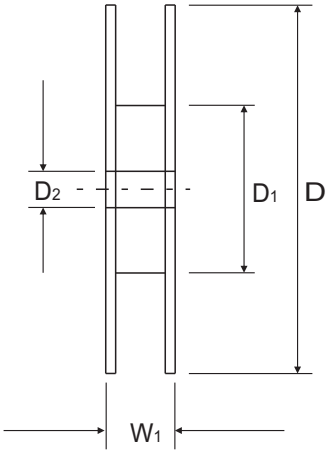
Fig.4 - Reverse Characteristics

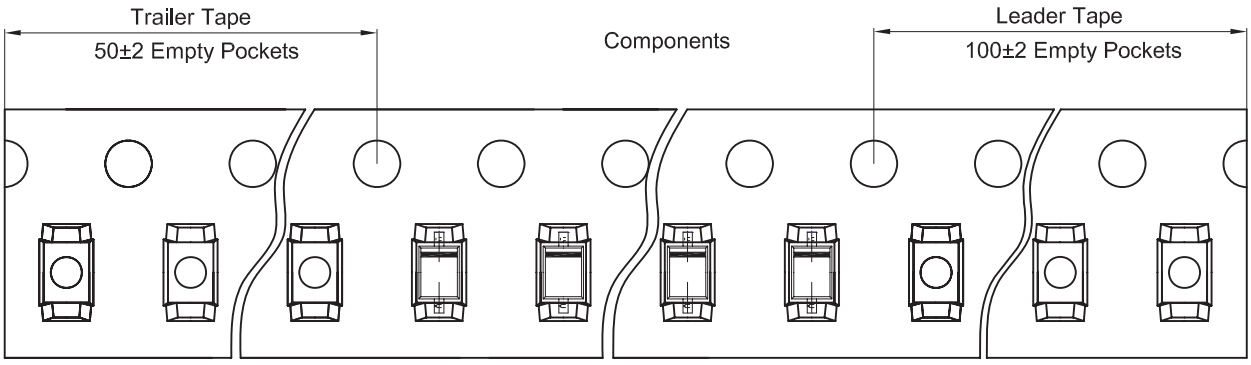


Reel Taping Specification









	SYMBOL	A	B	C	d	D	D_1	D_2
SOD-323	(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

	SYMBOL	E	F	P	P_0	P_1	W	W_1
SOD-323	(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

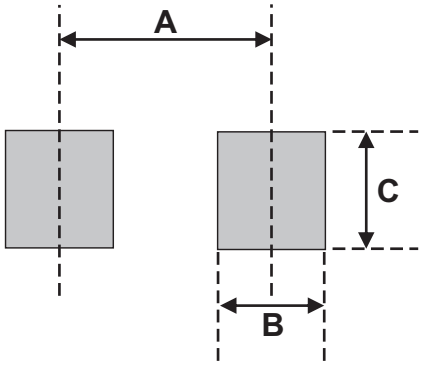
Part Number	Marking Code
RB751V-40	5



▌ = 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: ±0.05mm.
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