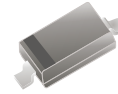


RB751V-40-P2-HF

RoHS Device
Halogen Free



Features

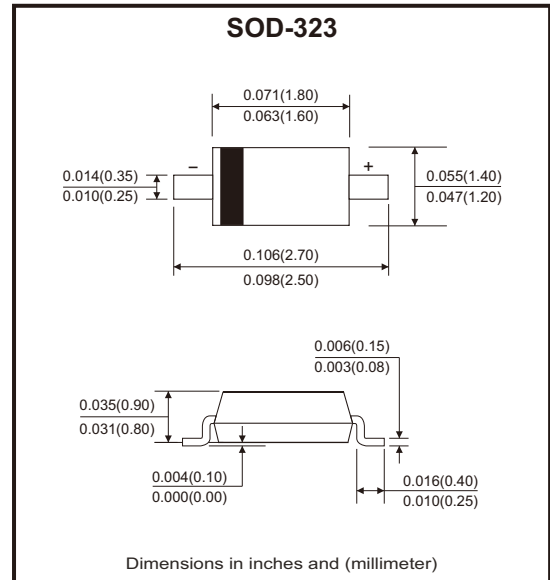
- Low forward voltage schottky rectifier.
- Low voltage, low inductance.

Mechanical data

- Case: SOD-323, molded plastic.
- Terminals: Solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any.

Circuit Diagram

Cathode  Anode



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

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	40	V
DC blocking voltage	V_R	40	V
Continuous forward current	I_O	30	mA
Non-repetitive peak forward surge current @8.3ms single half sine-wave	I_{FSM}	0.2	A
Power dissipation	P_D	200	mW
Junction temperature	T_J	125	°C
Storage temperature range	T_{STG}	-55 to +125	°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			0.5	μA
Capacitance between terminals	$V_R = 1\text{V}, f = 1\text{MHz}$	C_J		2		pF

Typical Rating and Characteristic Curves (RB751V-40-P2-HF)

Fig.1 - Forward Characteristics

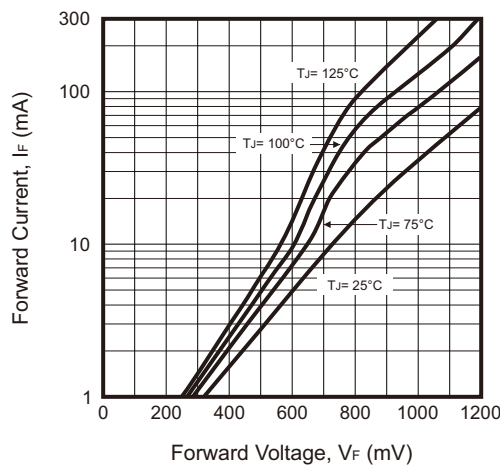


Fig.2 - Reverse Characteristics

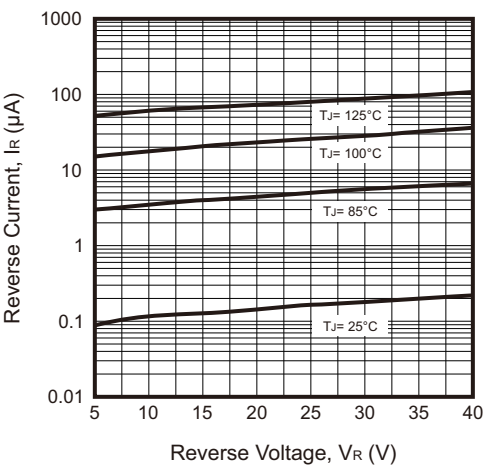
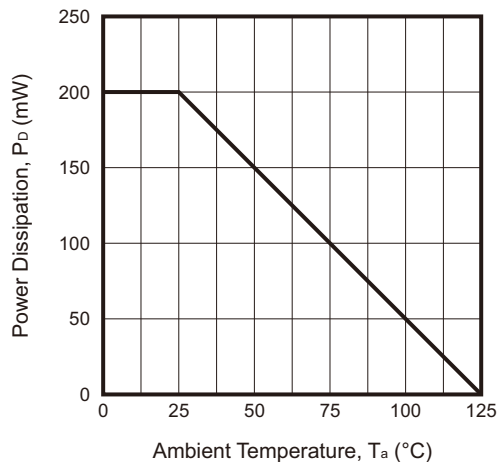
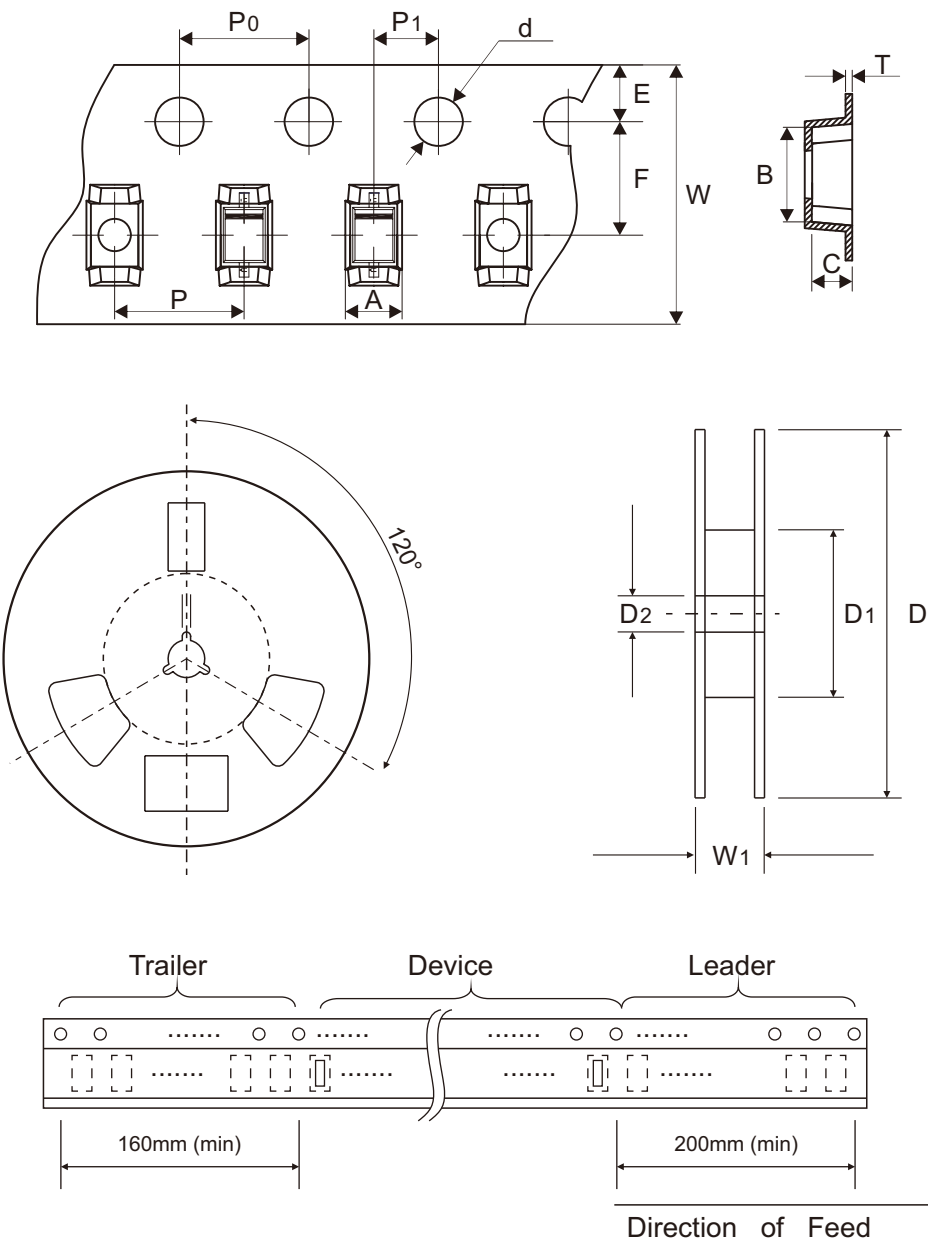


Fig.3 - Power Derating Curve



Reel Taping Specification

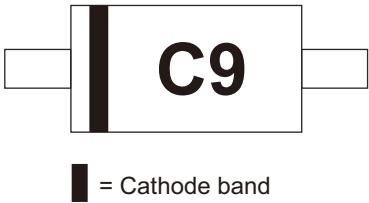


SOD-323	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.46 ± 0.10	2.925 ± 0.075	1.25 ± 0.10	1.55 ± 0.05	178.00 ± 2.00	50.00 ± 0.50	13.00 ± 0.25
	(inch)	0.057 ± 0.004	0.115 ± 0.003	0.049 ± 0.004	0.061 ± 0.002	7.008 ± 0.079	1.969 ± 0.020	0.512 ± 0.010

SOD-323	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.254 ± 0.02	$8.00 + 0.30 - 0.10$	9.50 ± 0.50
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.010 ± 0.001	$0.315 + 0.012 - 0.004$	0.374 ± 0.020

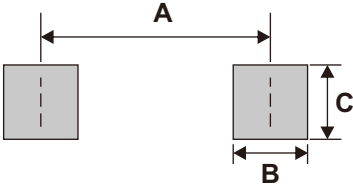
Marking Code

Part Number	Marking Code
RB751V-40-P2-HF	C9



Suggested P.C.B. PAD Layout

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



Standard Packaging

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