

Small Signal Product

Low VF SMD Schottky Barrier Diode

FEATURES

- Low power loss, high current capability, low VF
- Surface mount device type
- Moisture sensitivity level (MSL): 1
- Packing code with suffix "G" means green compound (halogen-free)



SOD-323F



MECHANICAL DATA

- Case : Flat lead SOD-323F small outline plastic package
- Molding compound, UL flammability classification rating 94V-0
- Terminal: Matte tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed : 260°C/10s
- Polarity: Indicated by cathode band
- Weight : 4.6 ± 0.5 mg
- Marking Code : S8



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P _D	200	mW
Repetitive Peak Reverse Voltage	V _{RRM}	40	V
Reverse Voltage	V _R	30	V
Mean Forward Current	I _O	30	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	0.2	A
Thermal Resistance (Junction to Ambient)	R _{θJA}	500	°C/W
Junction and Storage Temperature Range	T _J , T _{STG}	-40 to +125	°C

PARAMETER	SYMBOL	TYP	MAX	UNIT
Forward Voltage	V _F	-	0.37	V
Reverse Leakage Current	I _R	-	0.5	μA
Junction Capacitance	C _J	2	-	pF

Note: Valid provided that electrodes are kept at ambient temperature.

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RATINGS AND CHARACTERISTICS CURVES

($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Fig. 1 Typical Forward Characteristics

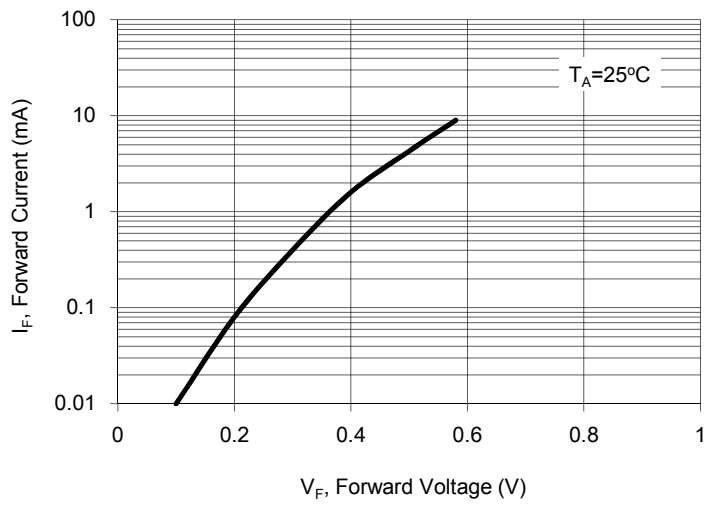


Fig. 2 Admissible Power Dissipation Curve

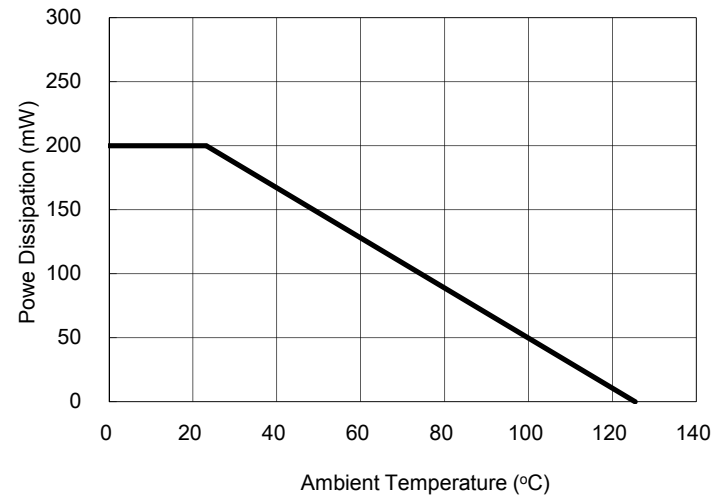


Fig. 3 Typical Junction Capacitance

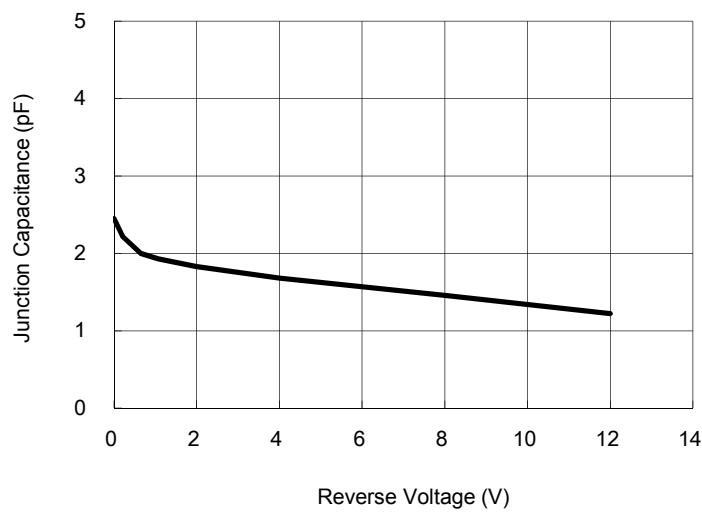
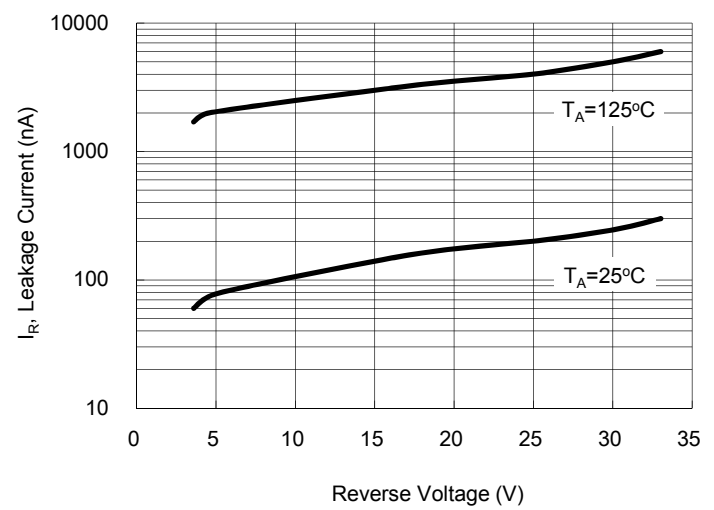


Fig. 4 Typical Reverse Characteristics



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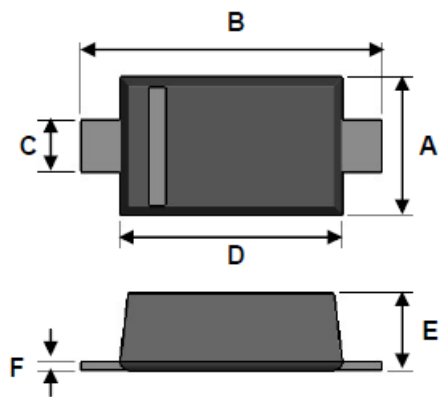
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX (Note 1)	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
RB751V-40WS	-xx	RR	G	SOD-323F	3,000 / 7" Reel
		R9			10,000 / 13" Reel

Note 1: Part No. Suffix „-xx “ would be used for special requirement

EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
RB751V-40WS RR	RB751V-40WS		RR		Multiple manufacture source
RB751V-40WS RRG	RB751V-40WS		RR	G	Multiple manufacture source Green compound
RB751V-40WS-B0 RRG	RB751V-40WS	-B0	RR	G	Define manufacture source Green compound

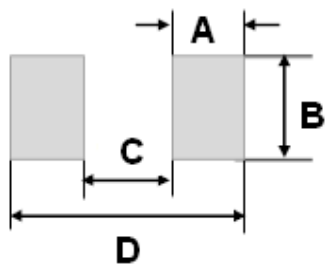
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PACKAGE OUTLINE DIMENSIONS
SOD-323F



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.15	1.35	0.045	0.053
B	2.30	2.80	0.091	0.110
C	0.25	0.40	0.010	0.016
D	1.60	1.80	0.063	0.071
E	0.80	1.10	0.031	0.043
F	0.05	0.25	0.002	0.010

SUGGEST PAD LAYOUT



DIM.	Unit (mm)		Unit (inch)	
	Typ.		Typ.	
A	0.63		0.025	
B	0.83		0.033	
C	1.60		0.063	
D	2.86		0.113	

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