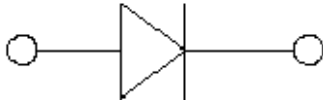


Schottky Rectifier



Features

- VR 40V
- I_FAV 0.5A
- For Surface Mount Application
- Moisture Sensitivity Level 1



Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** R41

■Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	V		40
DC Blocking Voltage	V _R	V		40
Peak forward surge current	I _{FSM}	A	8.3ms, half sine	5.5A
Average forward current	I _{FAV}	A		0.5
Power dissipation	P _{tot}	mW		410
Maximum junction temperature	T _j	°C		-55 to +150
Storage temperature range	T _{stg}	°C		-55 to +150

■Ordering Information (Example)

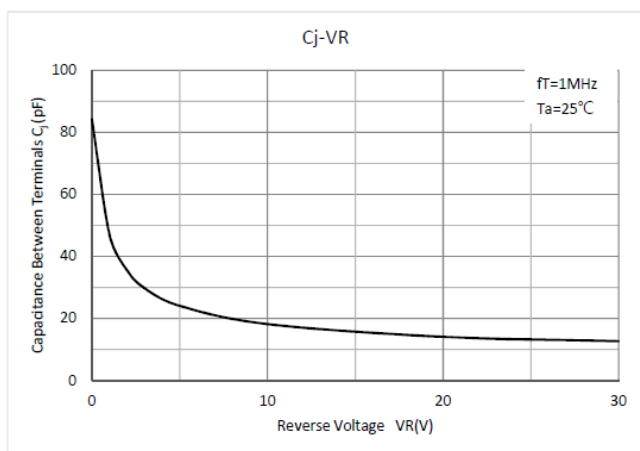
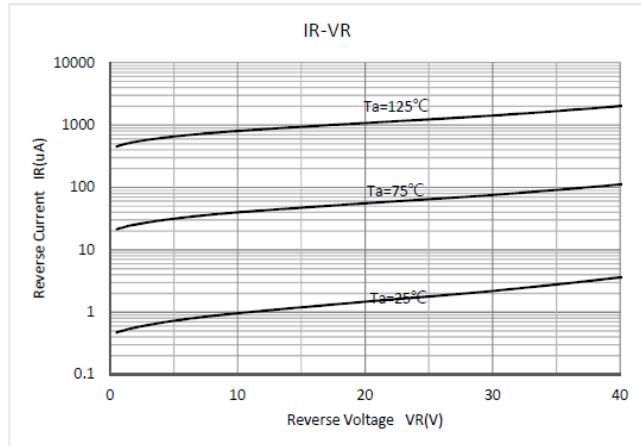
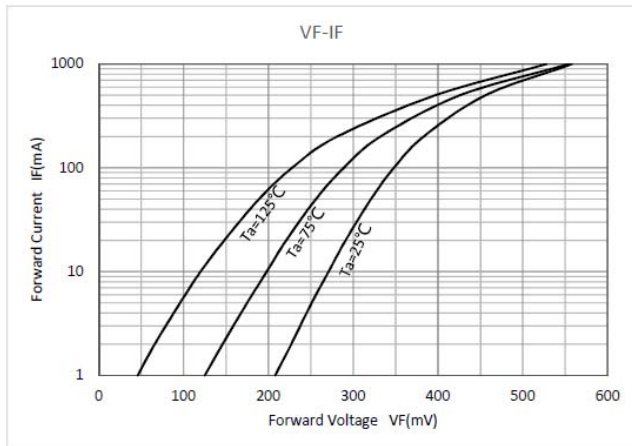
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
B0540W	F2	Approximate 0.011	3000	30000	120000	7" reel

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

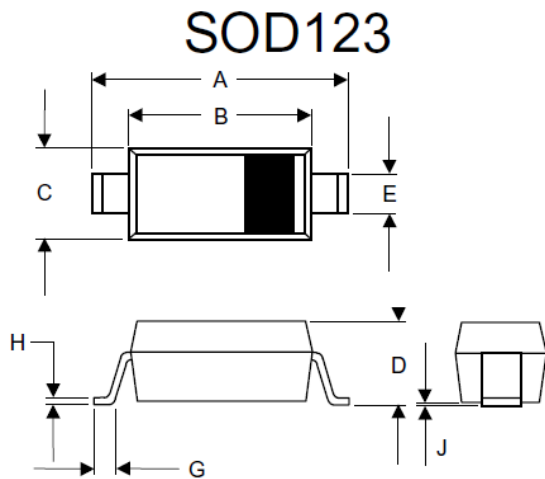
PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Breakdown Voltage	V _R	V	I _R =20uA	40		
Forward Voltage	V _F	V	I _F =0.5A, T _A =25°C			0.51
			I _F =1A, T _A =25°C			0.62
Reverse Leakage Current	I _R	uA	V _R =20V			10
			V _R =40V			20
Typical Junction Capacitance	C _J	pF	V _R =4V, f=1MHz			30



■ Characteristics (Typical)

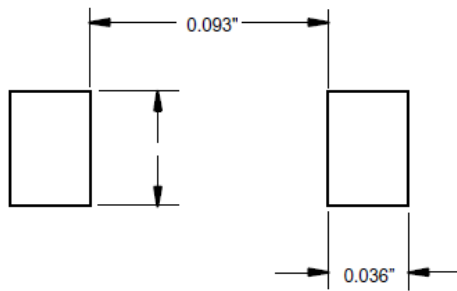


■ Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

■ Soldering Footprint



Unit: inches



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.