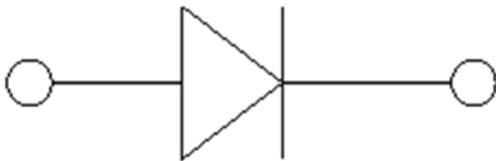


Schottky Barrier Rectifier



Features

- V_R 40V
- I_F 100mA

Typical Applications

- Low Forward Voltage Drop

Mechanical Data

- **Package:** SOD-323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** S31

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		45
Reverse voltage	V_R	V	$I_R=10\mu A$	40
Average forward current	I_F	mA		100
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	8.3ms single half sine-wave	1.0
Power Dissipation	P_D	mW		200
Thermal Resistance Junction to Ambient Air	$R\theta_{JA}$	°C/W		500
Maximum junction temperature	T_j	°C		125
Storage temperature range	T_{stg}	°C		-55 to +125

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

PARAMETER	SYMBOL	UNIT	Conditions	Min	Max
Breakdown Voltage	V_R	V	$I_R=10\mu A$	40	
Forward Voltage	V_{F1}	V	$I_F=1mA$		0.32
	V_{F2}	V	$I_F=10mA$		0.38
	V_{F3}	V	$I_F=100mA$		0.6
Reverse Leakage Current	I_R	μA	$V_R=40V$		5

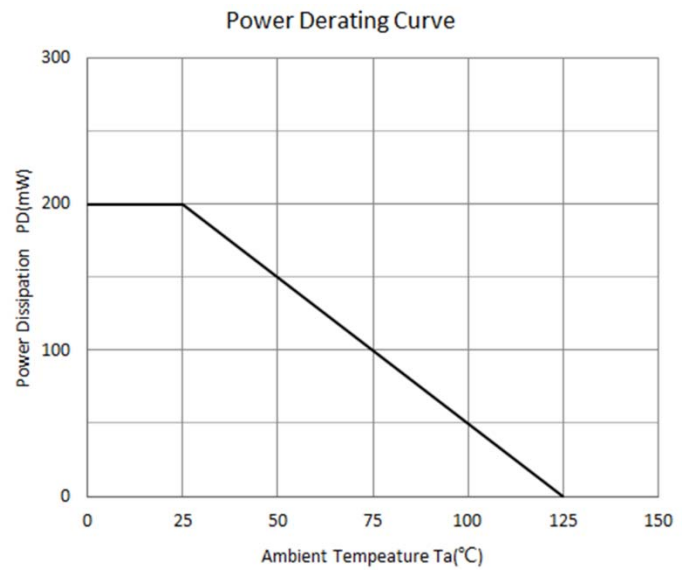
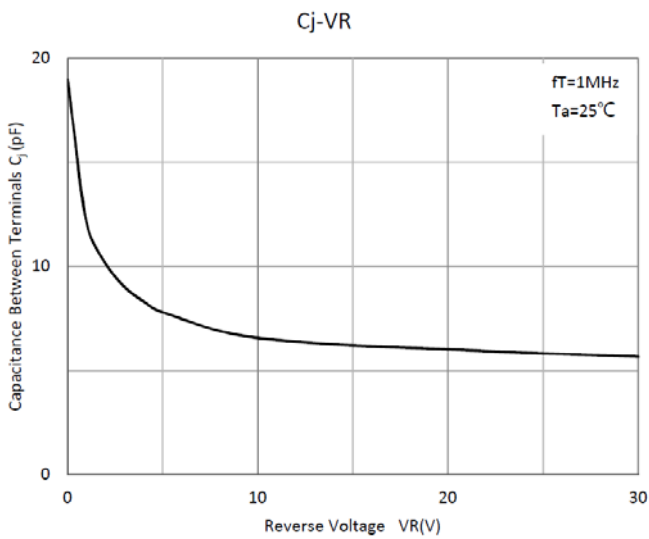
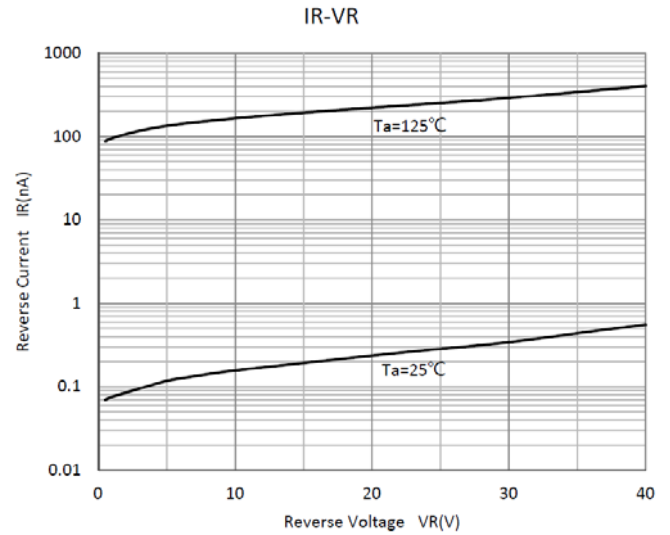
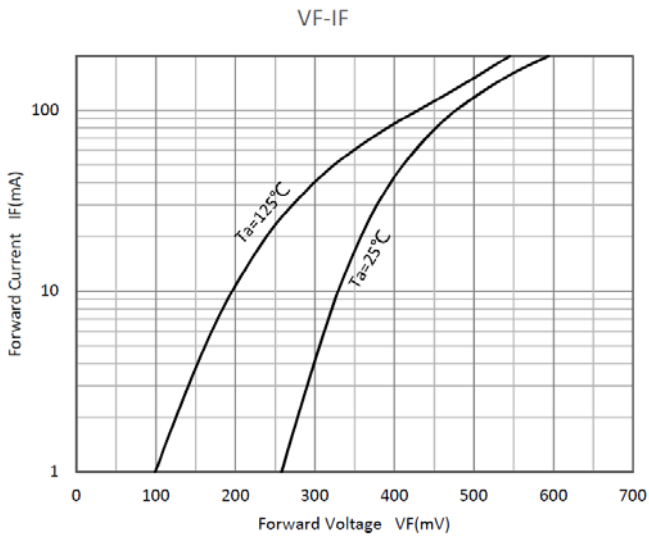


1SS357

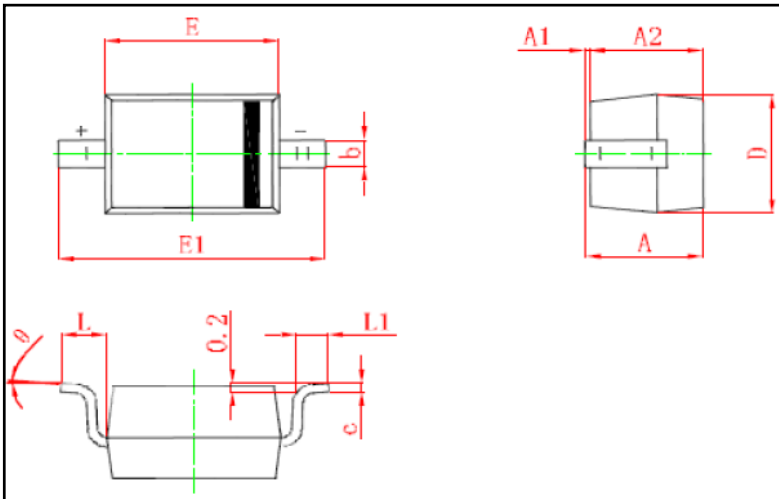
Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1SS357	F2	Approximate 0.004	3000	30000	120000	7" reel

Characteristics (Typical)

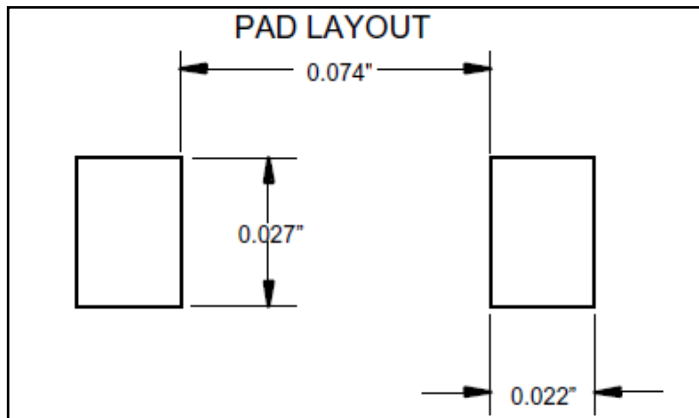


■ SOD-323 Package Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

■ SOD-323 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>, or consult your nearest Yangjie's sales office for further assistance.