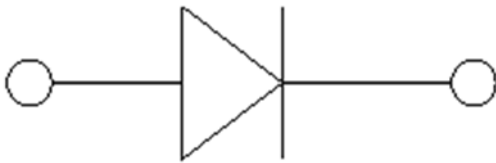


## Schottky Barrier Rectifier



### 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	$I_R$	$\mu A$	$V_R=40V$		5

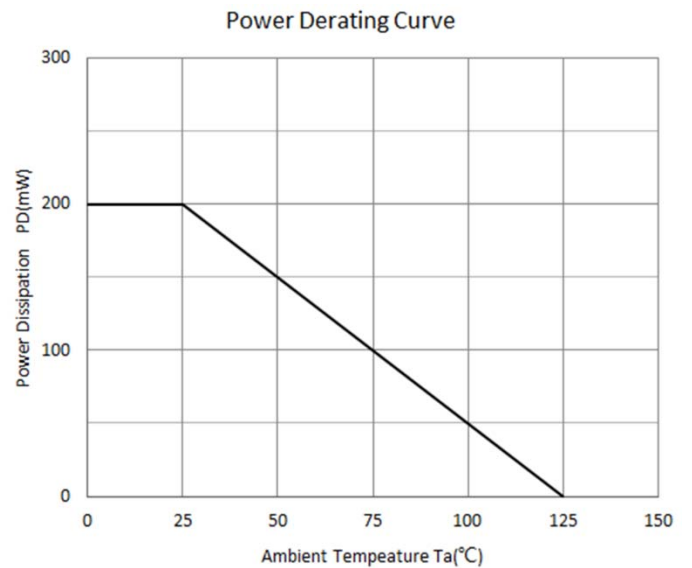
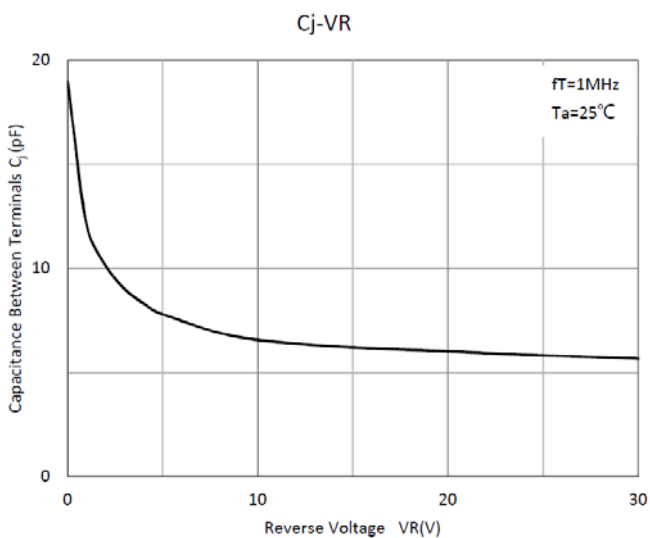
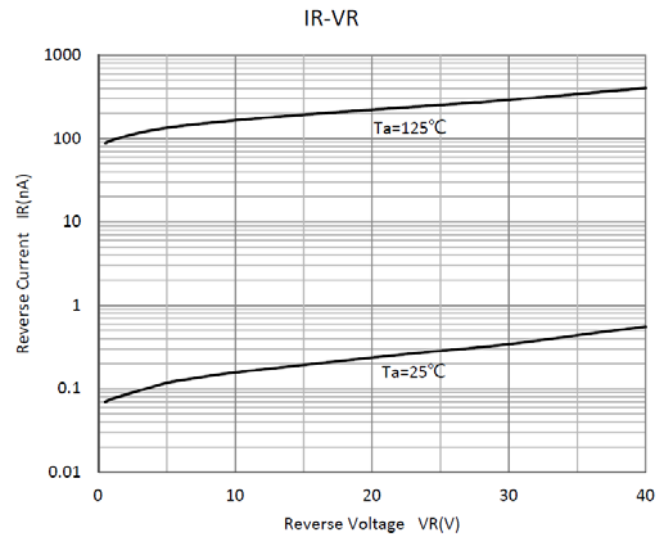
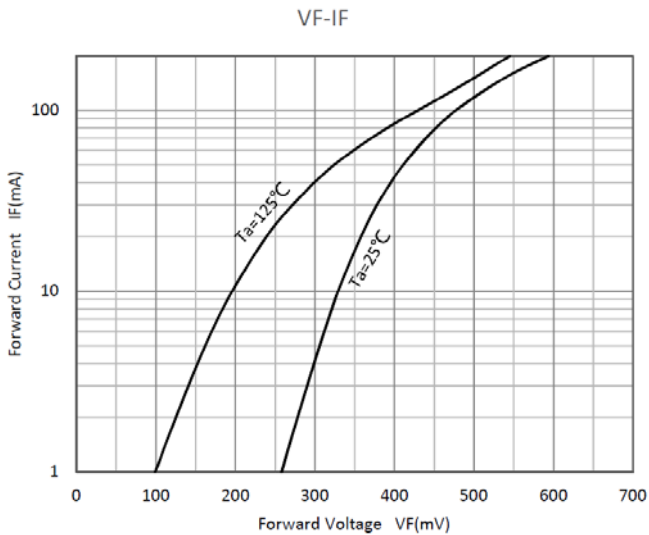


# 1SS357

## Ordering Information (Example)

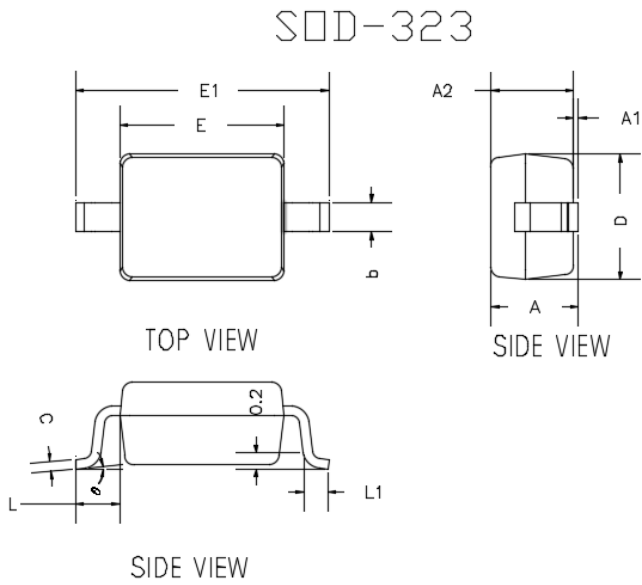
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1SS357	F2	Approximate 0.004	3000	30000	120000	7" reel

## Characteristics (Typical)



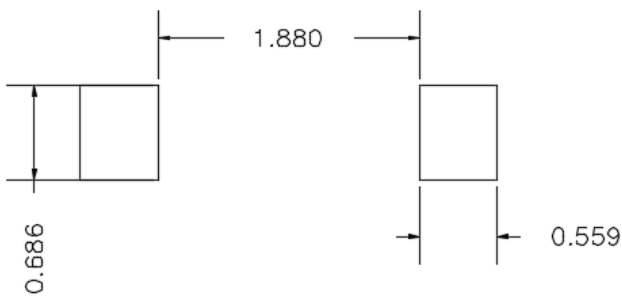


■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	---	0.0393	---	1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	0.0098	0.0157	0.2500	0.4000
c	0.0031	0.0059	0.0800	0.1500
D	0.0472	0.0551	1.2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2.7000
L	0.0187TYP		0.475TYP	
L1	0.0098	0.0157	0.250	0.400
e	0°	8°	0°	8°

■ Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT



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