

Schottky Barrier Rectifier



Features

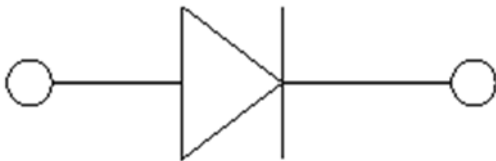
- V_R 40V
- I_F 100mA

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

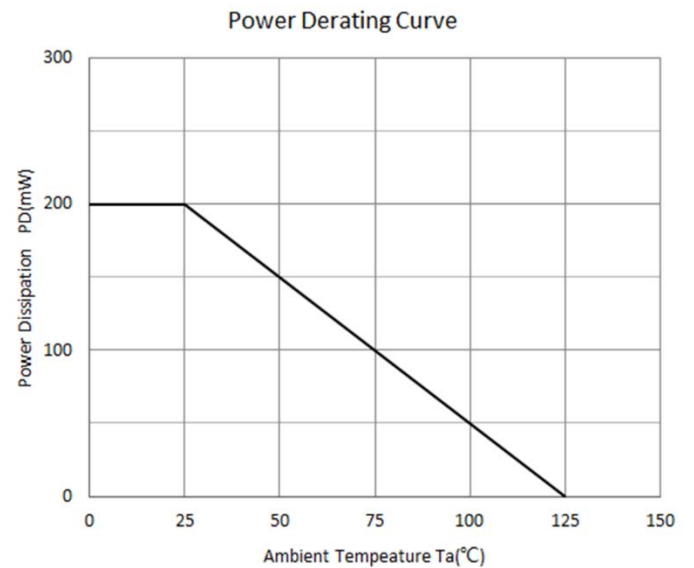
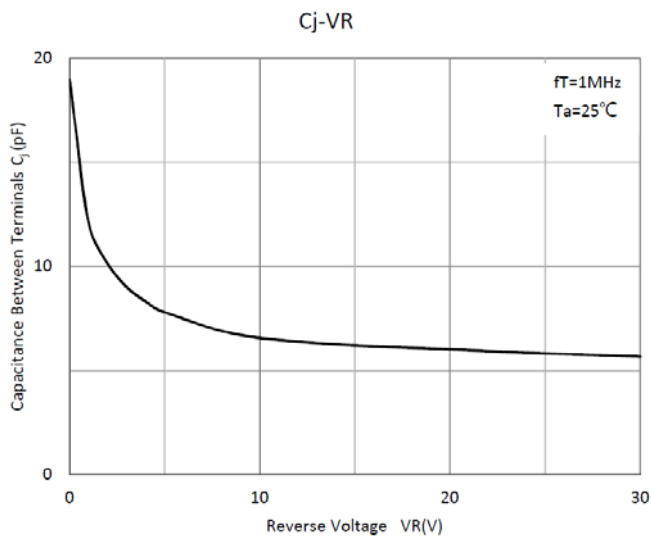
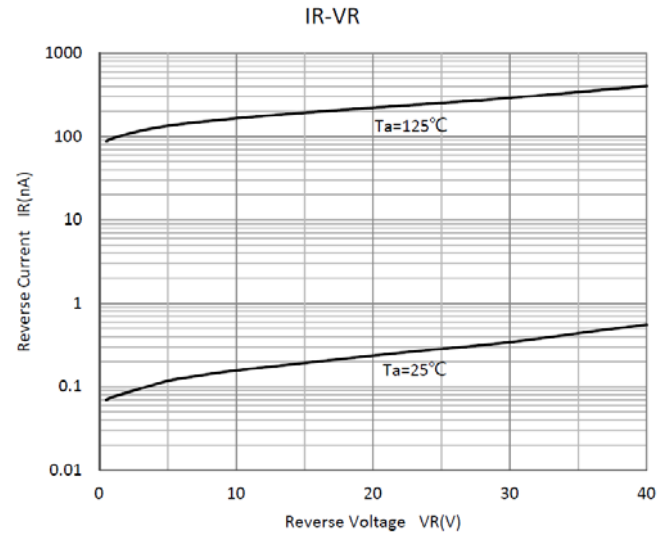
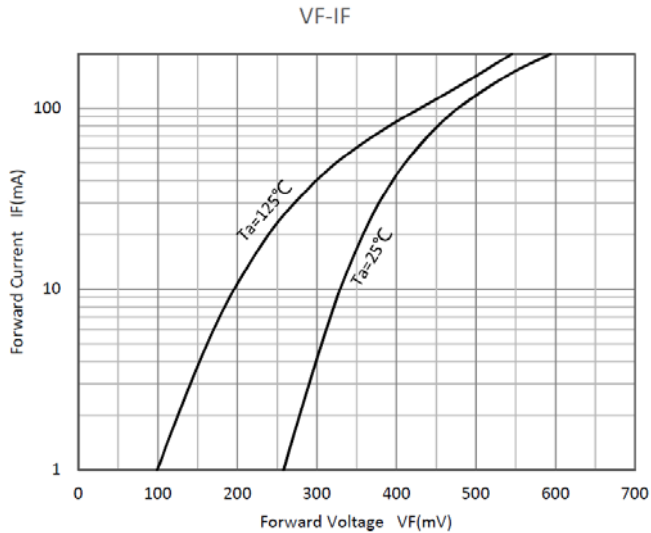
■Electrical Characteristics (Ta=25°C Unless otherwise specified)

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

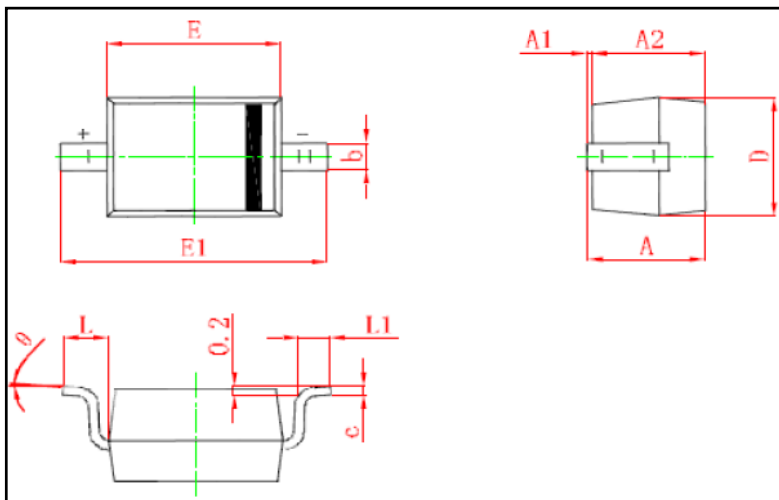
■ Ordering Information (Example)

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)

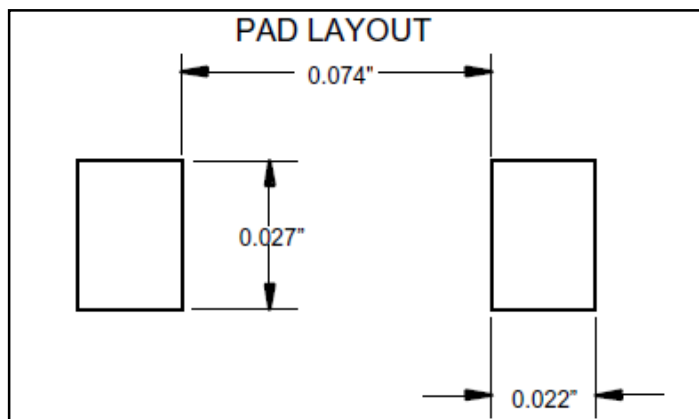


■ SOD-323 Package Outline Dimensions



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

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