

RB550VA-30

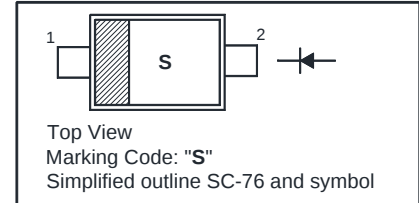
Silicon Epitaxial Planar Schottky Barrier Diode

Features

- Low forward voltage, low reverse current
- Small plastic SMD SC-76 package
- High reliability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

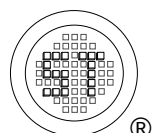


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Reverse Voltage	V_R	30	V
Average Forward Rectified Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current ($t_p = 10 \text{ ms}$)	I_{FSM}	3	A
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	30	-	-	V
Forward Voltage at $I_F = 700 \text{ mA}$ at $I_F = 1 \text{ A}$	V_F	- -	- -	0.48 0.52	V
Reverse Current at $V_R = 10 \text{ V}$	I_R	-	-	20	μA
Total Capacitance at $V_R = 10 \text{ V}$, $f = 1 \text{ MHz}$	C_T	-	30	-	pF



Electrical Characteristics Curves

Fig 1. Reverse Characteristic Curve

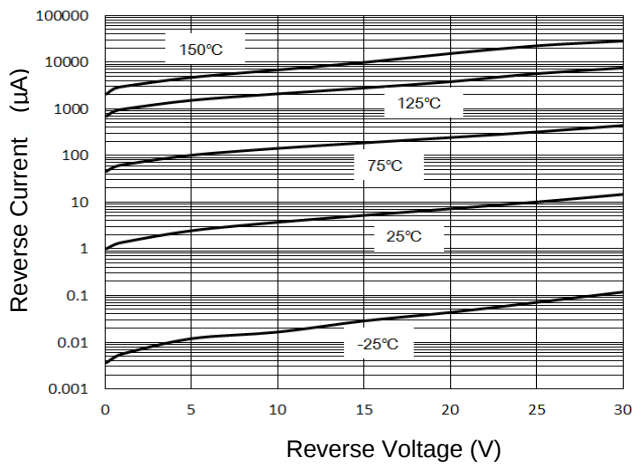


Fig 2. Forward Characteristic Curve

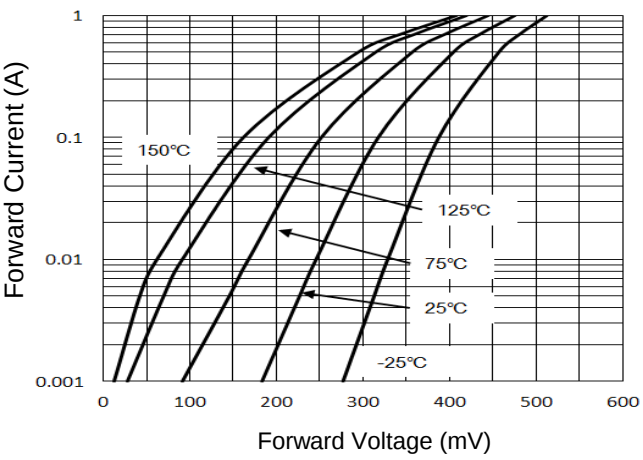
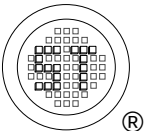
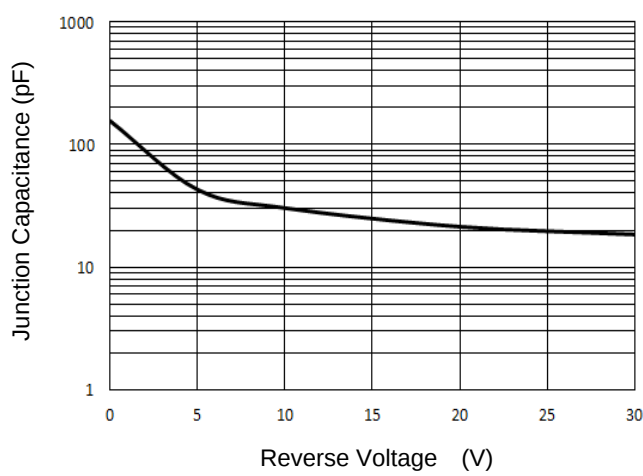


Fig 3. Junction Capacitance

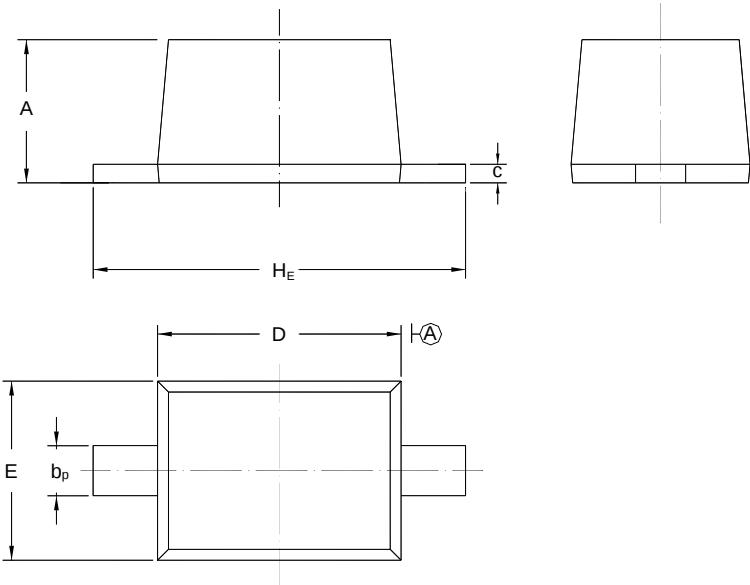


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PACKAGE OUTLINE

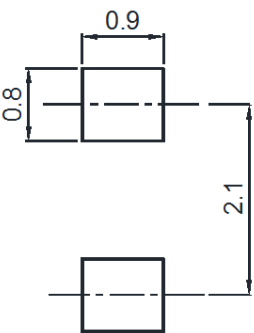
Plastic surface mounted package; 2 leads

SC-76



UNIT	A	b _p	C	D	E	H _E
mm	1.10 0.80	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SC-76	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" III " = Cathode line

" S " = Part No.

Font type: Arial

