

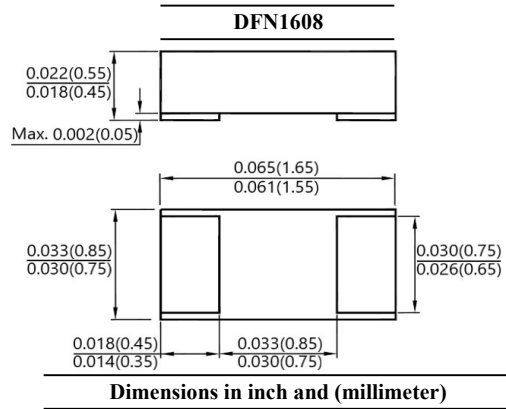
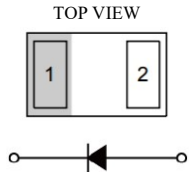


# RB551SS-30

## SCHOTTKY DIODES

### FEATURES

- Low leakage current
- High reliability
- Suffix "H" indicates Halogen-free parts, ex. RB551SS-30H



### Maximum Ratings@ $T_A = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RM}$	30	V
Reverse Voltage	$V_R$	20	V
Average Rectified Forward Current	$I_{F(AV)}$	0.5	A
Peak Forward Surge Current ( $t_p=8.3\text{ms}$ )	$I_{FSM}$	5	A
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-40 to +125	$^\circ\text{C}$

### Electrical Characteristics@ $T_A = 25\text{ }^\circ\text{C}$

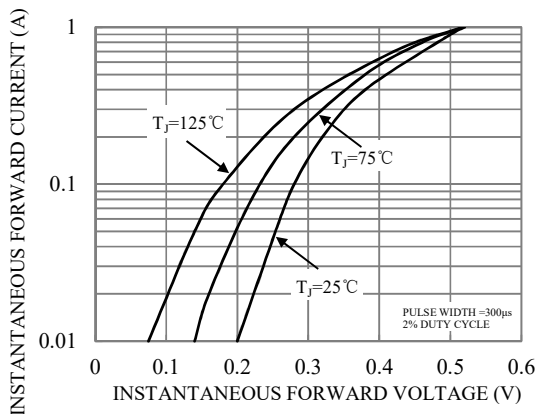
Parameter	Conditions	Symbol	Min.	Max.	Unit
Forward Voltage	$I_F = 100\text{mA}$	$V_F$	-	0.36	V
	$I_F = 500\text{mA}$		-	0.47	
Reverse Current	$V_R = 20\text{V}$	$I_R$	-	50	$\mu\text{A}$



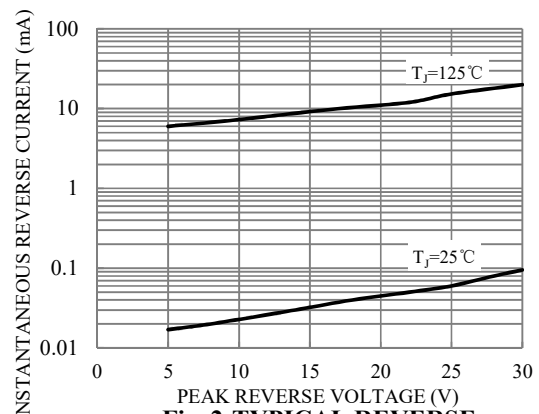
# RB551SS-30

## SCHOTTKY DIODES

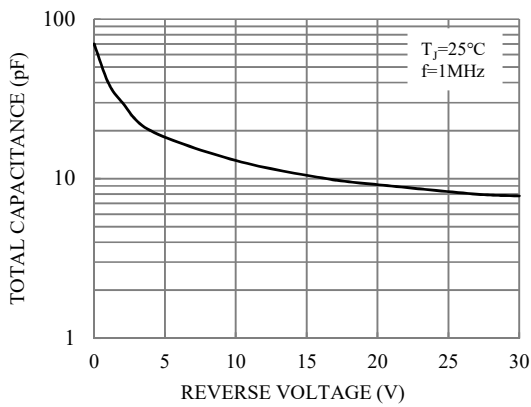
### RATINGS AND CHARACTERISTIC CURVES



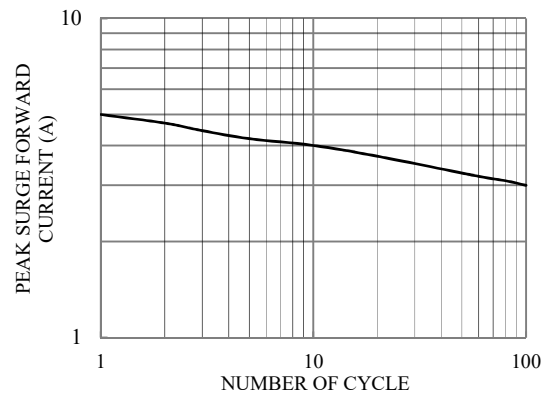
**Fig. 1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**Fig. 2-TYPICAL REVERSE CHARACTERISTICS**



**Fig. 3-TYPICAL TOTAL CAPACITANCE**



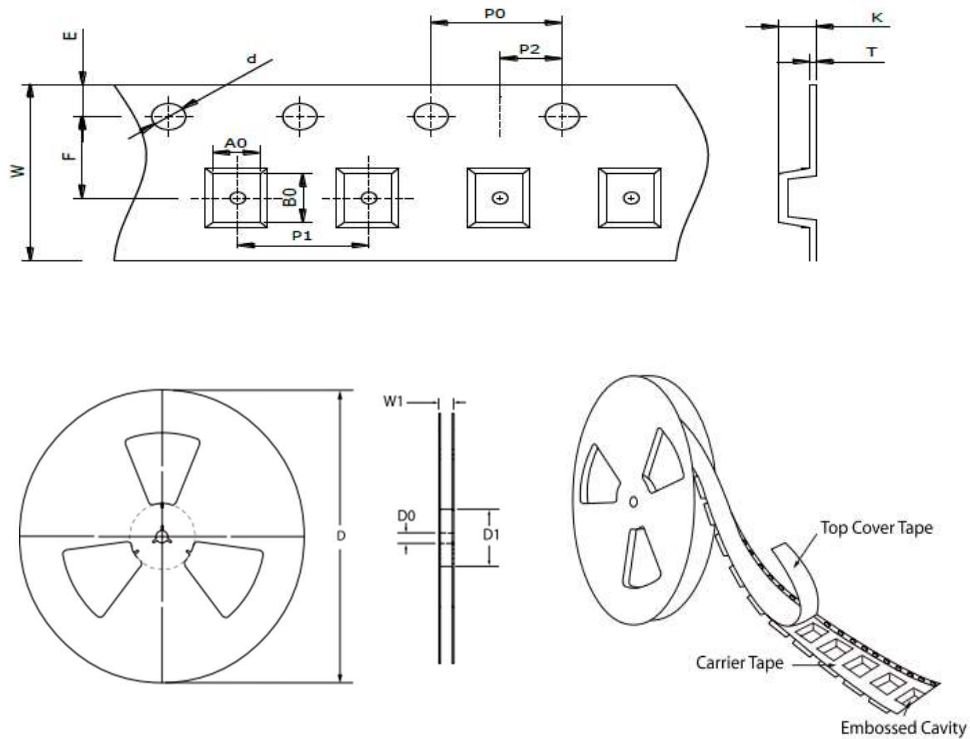
**Fig. 4-FORWARD SURGE CURRENT**



# RB551SS-30

## SCHOTTKY DIODES

### TAPE & REEL SPECIFICATION



Item	Symbol	DFN1608
Carrier width	A <sub>0</sub>	0.85 ± 0.15
Carrier length	B <sub>0</sub>	1.65 ± 0.15
Carrier depth	K	2.40 ± 0.10
Sprocket hole	d	1.50 ± 0.10
Reel outside diameter	D	178.00 ± 2.00
Feed hole width	D <sub>0</sub>	13.00 ± 0.50
Reel inner diameter	D <sub>1</sub>	MIN. 50.00
Sprocket hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.10
Sprocket hole pitch	P <sub>0</sub>	4.00 ± 0.10
Punch hole pitch	P <sub>1</sub>	4.00 ± 0.10
Embossment center	P <sub>2</sub>	2.00 ± 0.10
Overall tape thickness	T	MAX. 0.60
Tape width	W	MAX. 8.30
Reel width	W <sub>1</sub>	MAX. 14.90

### ORDER INFORMATION

Package	Reel Size	Quantity
DFN1608	7"	4,000

### MARKING CODE

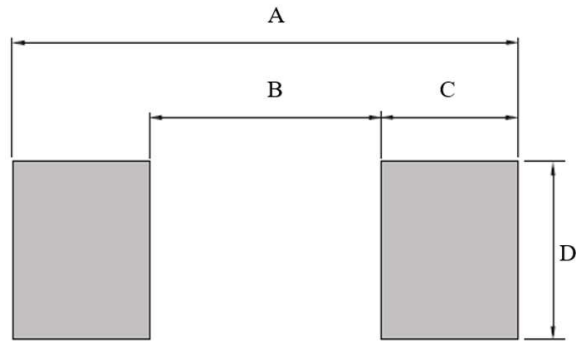
Part Number	Marking Code
RB551SS-30	AA



# RB551SS-30

## SCHOTTKY DIODES

### SUGGESTED SOLDER PAD LAYOUT



Unit : mm

PACKAGE	A	B	C	D
DFN1608	1.70	0.70	0.50	0.80