

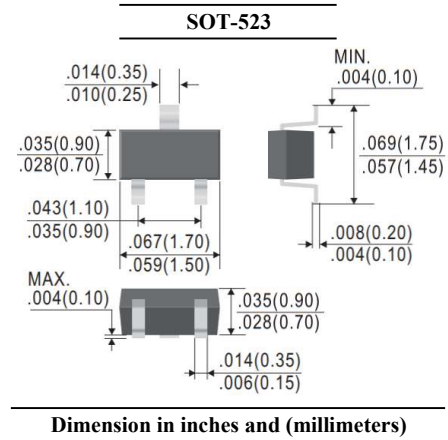
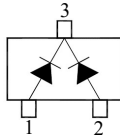


# RB715CTH

## SCHOTTKY DIODE

### FEATURES

· Suffix "H" indicates Halogen-free parts, ex. RB715CTH



### Maximum Ratings ( $T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	$V_{RM}$	40	V
Reverse Voltage	$V_R$	40	V
Average Rectified Forward Current	$I_{F(AV)}$	30	mA
Peak Forward Surge Current	$I_{FSM}$	200	mA
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to +125	$^\circ\text{C}$

### Electrical Characteristics ( $T_A = 25\text{ }^\circ\text{C}$ unless otherwise specified)

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$I_R = 10\mu\text{A}$	$V_{(BR)R}$	40	-	-	V
Forward Voltage	$I_F = 1\text{mA}$	$V_F$	-	-	0.37	V
Reverse Current	$V_R = 10\text{V}$	$I_R$	-	-	1	$\mu\text{A}$
Total Capacitance	$V_R = 1\text{V}$ , $f = 1\text{MHz}$	$C_T$	-	2	-	pF



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## RATINGS AND CHARACTERISTIC CURVES

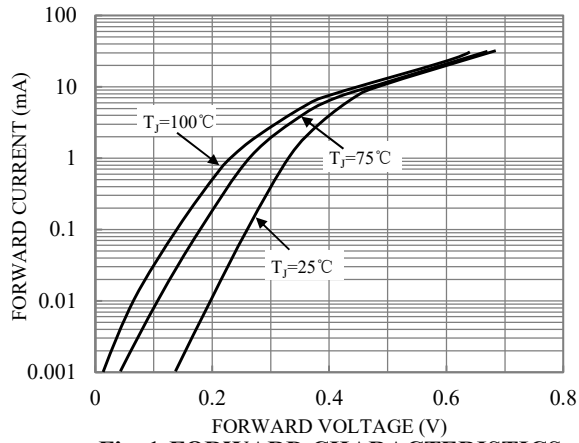


Fig. 1-FORWARD CHARACTERISTICS

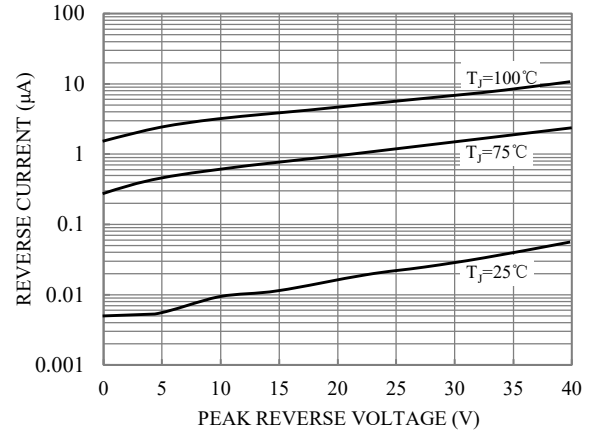


Fig. 2-TYPICAL REVERSE CHARACTERISTICS

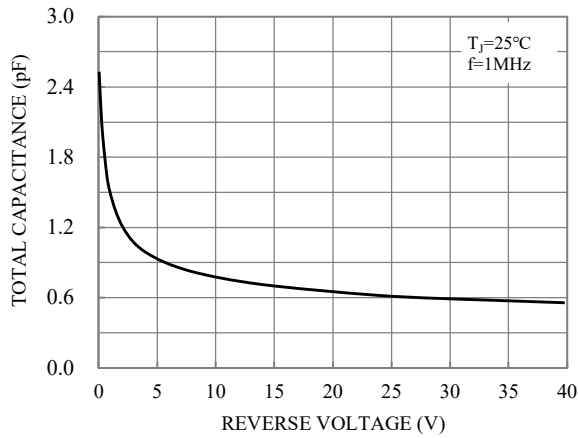
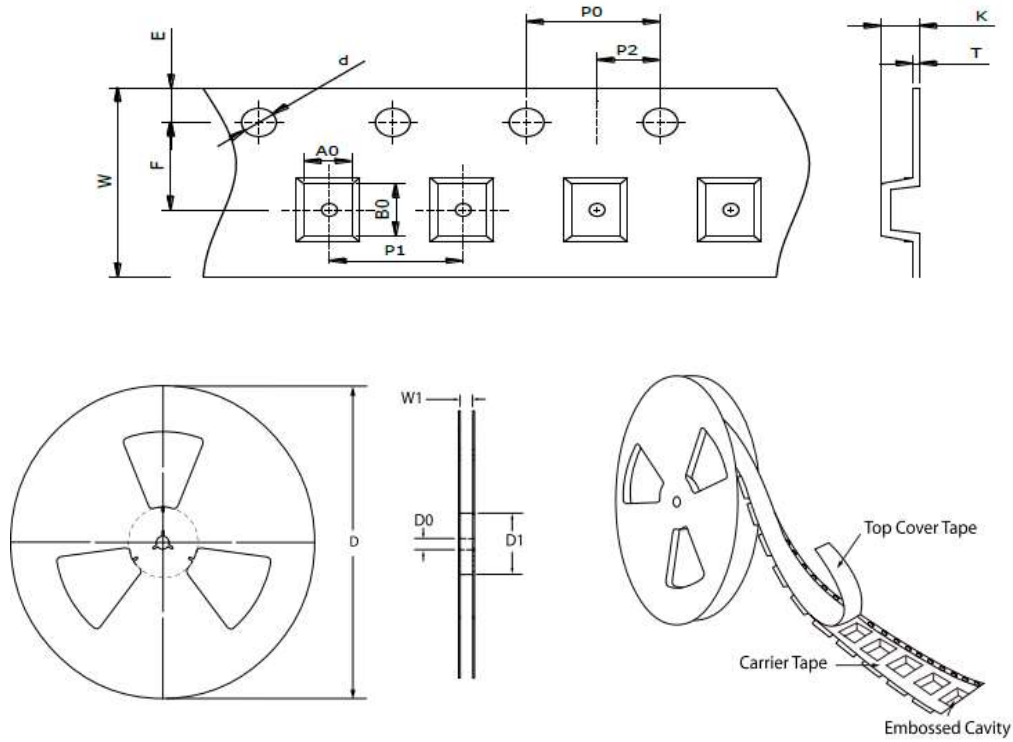


Fig. 3-TYPICAL TOTAL CAPACITANCE



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## TAPE & REEL SPECIFICATION



Item	Symbol	SOT-523
Carrier width	A <sub>0</sub>	1.85 ± 0.10
Carrier length	B <sub>0</sub>	1.85 ± 0.10
Carrier depth	K	1.05 ± 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	8.00 ± 0.20
Reel width	W <sub>1</sub>	MAX. 10.00

## ORDER INFORMATION

Package	Reel Size	Quantity
SOT-523	7"	4,000

## MARKING CODE

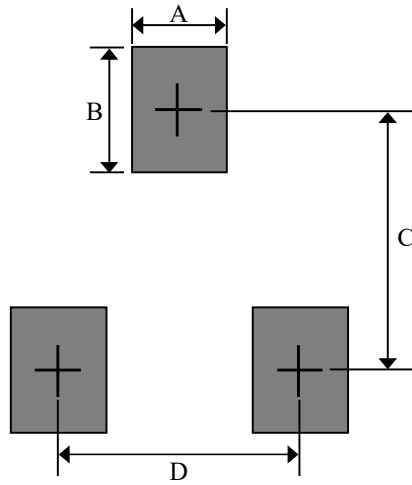
Part Number	Marking Code
RB715CTH	3D



# RB715CTH

## SCHOTTKY DIODE

### SUGGESTED SOLDER PAD LAYOUT



Unit : mm

PACKAGE	A	B	C	D
SOT-523	0.70	0.70	1.30	1.00