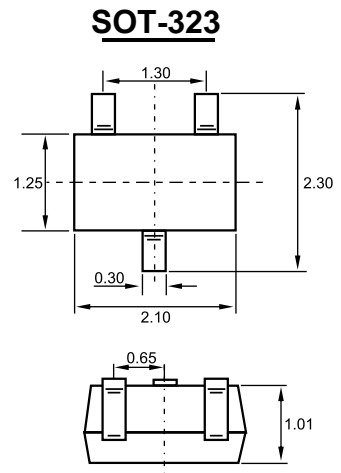


## Features

- ◇ Extra small power mold type.
- ◇ Low  $V_F$ .
- ◇ High reliability.

## Applications

- ◇ General purpose application.



Dimensions in inches and (millimeters)

## Ordering Information

Type No.	Marking	Package Code
RB715F	3D	SOT-323

## MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak reverse voltage	$V_{RM}$	40	V
Diode reverse voltage	$V_R$	40	V
Average forward current	$I_F$	30	mA
Forward Surge Current $t=1\mu\text{S}$	$I_{FS}$	200	mA
Power Dissipation	$P_d$	150	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-40-+125	$^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$	40		V
Reverse voltage leakage current	$I_R$	$V_R=10\text{V}$		1	$\mu\text{A}$
Forward voltage	$V_F$	$I_F=1\text{mA}$		370	mV
Diode capacitance	$C_D$	$V_R=1\text{V}$ $f=1\text{MHz}$		2.0	pF

TYPICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified

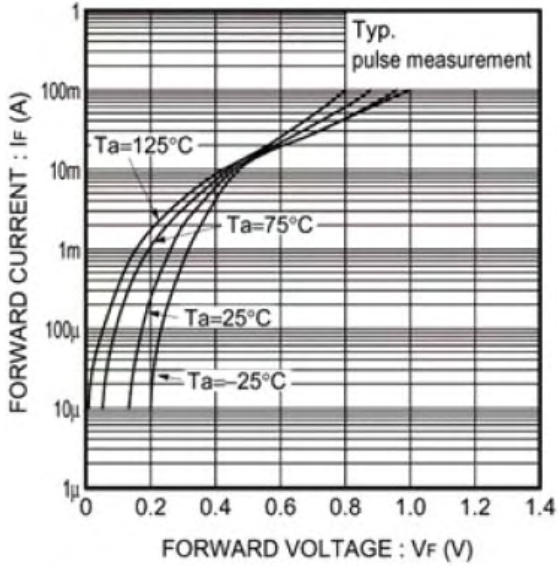


Fig. 1 Forward characteristics

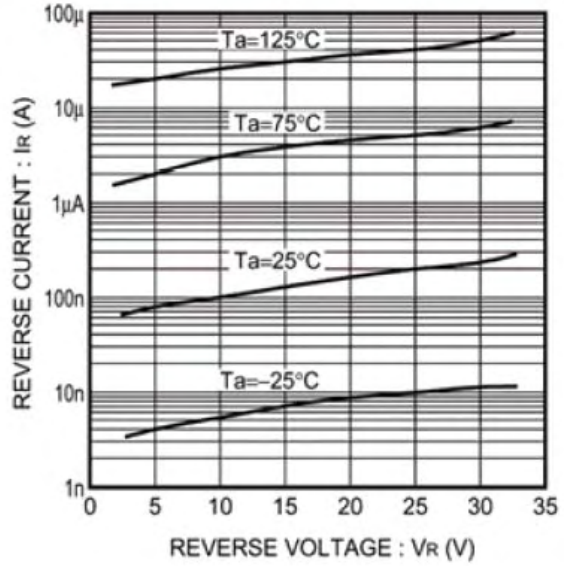


Fig. 2 Reverse characteristics

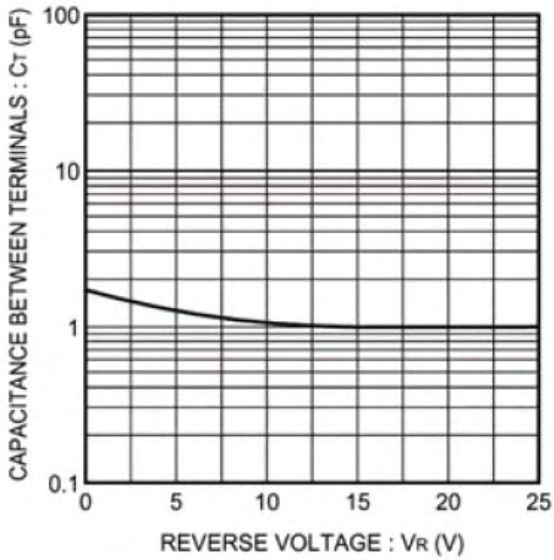


Fig. 3 Capacitance between terminals characteristics

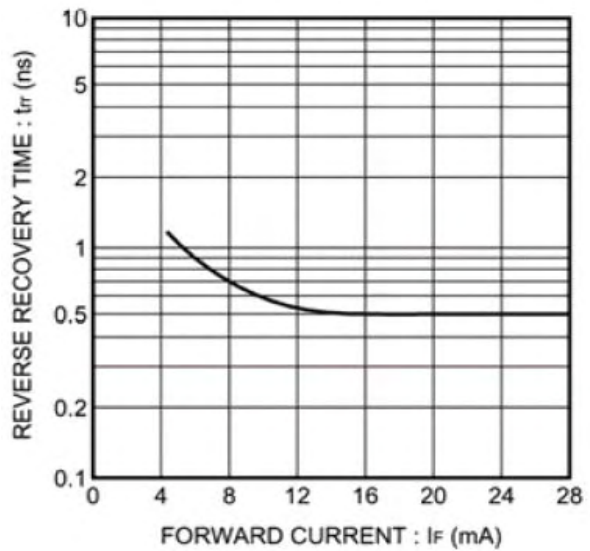


Fig. 4 Reverse recovery time characteristics