

## Schottky Barrier Diode

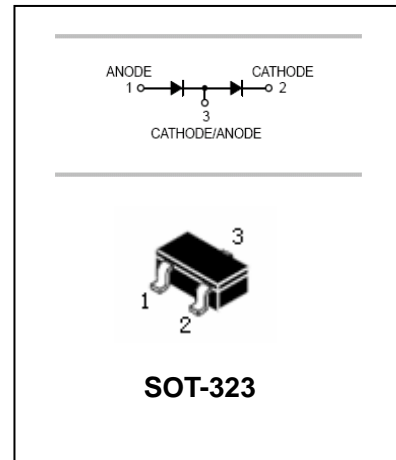
## RB706F-40

### FEATURES

- Small surface mounting type.
- Low  $V_F$  and low  $I_R$ .
- High reliability.



Lead-free



### APPLICATIONS

- For general purpose applications.

### ORDERING INFORMATION

Type No.	Marking	Package Code
RB706F-40	3J	SOT-323

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

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	$V_{RM}$	45	V
Diode reverse voltage	$V_R$	40	V
Average output Current	$I_O$	30	mA
Forward Surge Current (10ms)	$I_{FSM}$	200	mA
Power Dissipation	$P_d$	100	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55-+125	$^\circ\text{C}$

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

Parameter	Symbol	Test conditions	MIN	Typ.	MAX	UNIT
Reverse current	$I_R$	$V_R=10\text{V}$			1	$\mu\text{A}$
Forward voltage	$V_F$	$I_F=1\text{mA}$			0.37	V
Diode capacitance	$C_D$	$V_R=1\text{V}, f=1\text{MHz}$		2		pF

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## RB706F-40

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

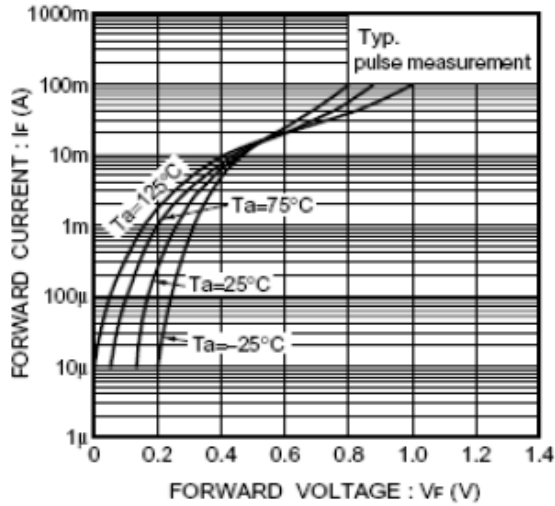


Fig. 1 Forward characteristics

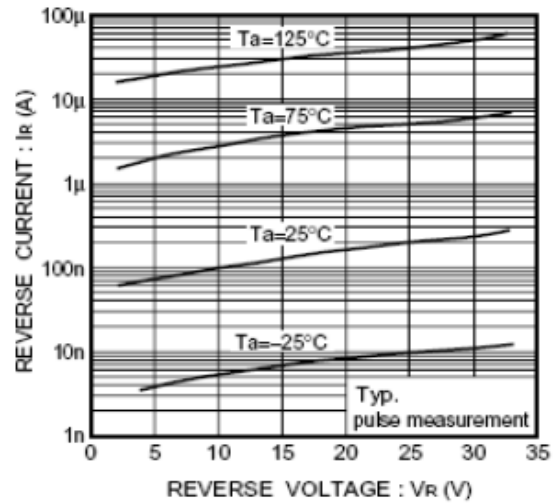


Fig. 2 Reverse characteristics

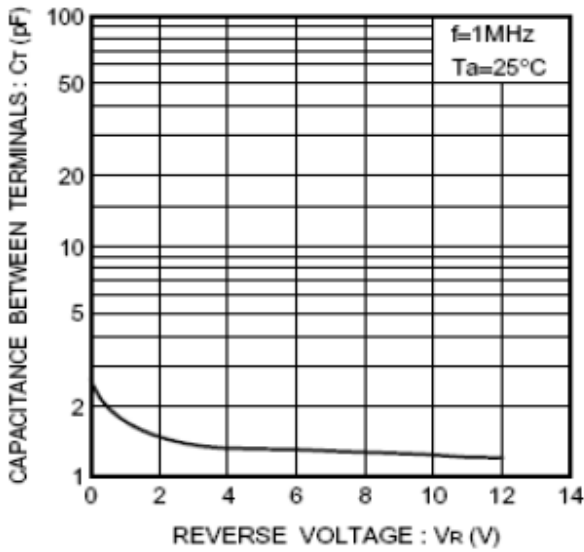


Fig. 3 Capacitance between terminals characteristics

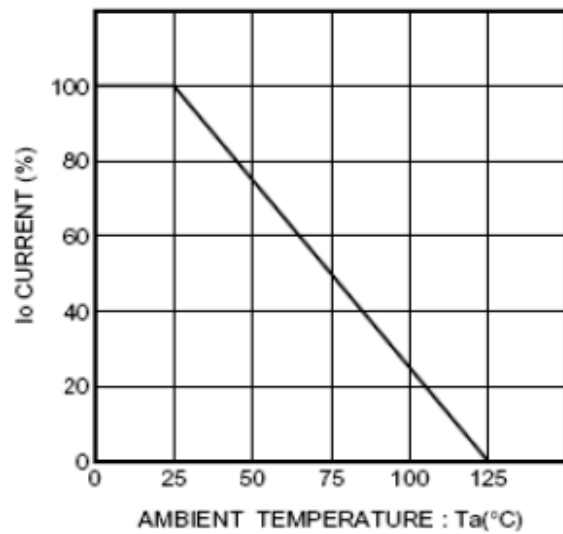


Fig 4. Derating curve (mounting on glass epoxy PCBs)

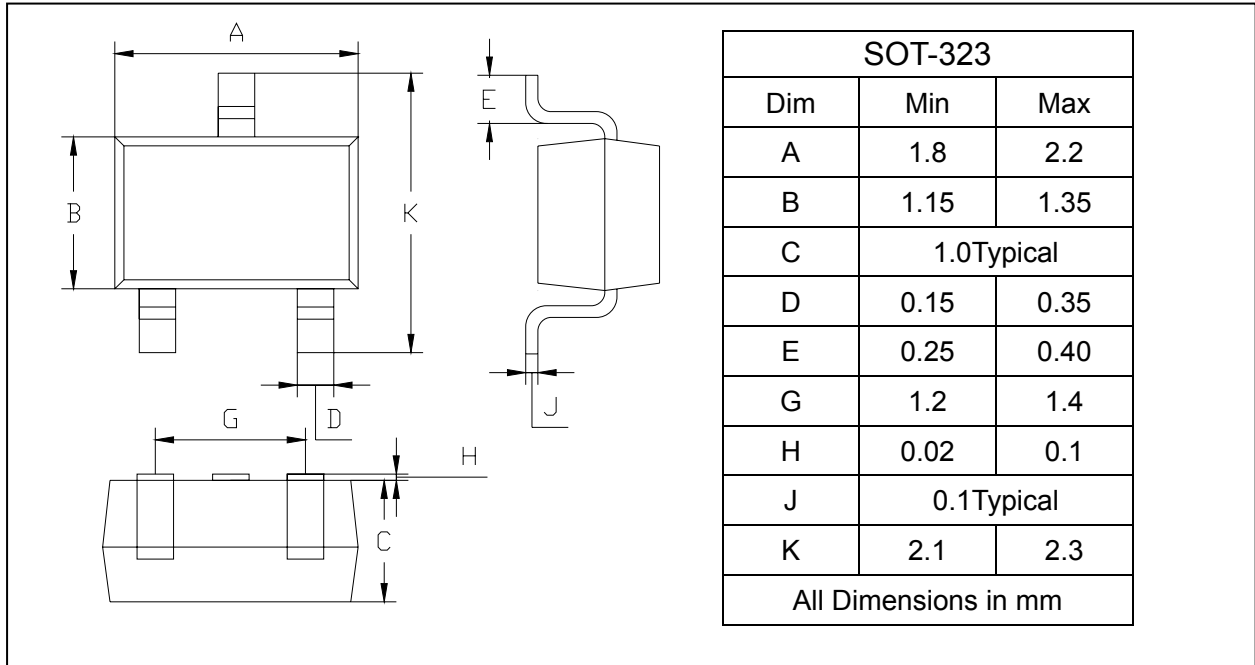
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### PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



### PACKAGE INFORMATION

Device	Package	Shipping
RB706F-40	SOT-323	3000/Tape&Reel