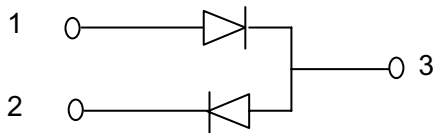
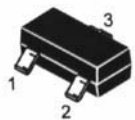


# RB706F-40

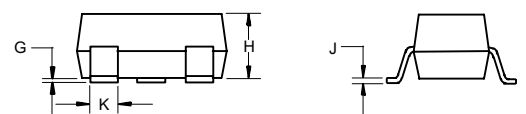
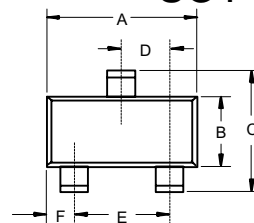
## Features

- High Reliability
- Low VF, Low IR
- Case Material: Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)



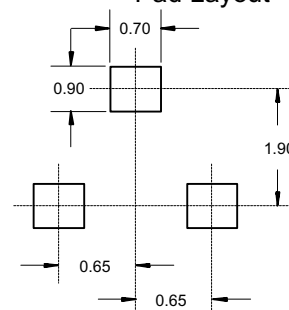
## 40 Volts Schottky Barrier Diode

### SOT-323



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.079	.087	2.00	2.20	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.012	.016	.30	.40	

### Suggested Solder Pad Layout



## Maximum Ratings

Symbol	Rating	Rating	Unit
$V_{RM}$	Peak Reverse Voltage	45	V
$V_R$	DC Reverse Voltage	40	V
$I_O$	Mean Rectifying Current	30	mA
$I_{FSM}$	Peak Forward Surge Current	200	mA
$P_D$	Power Dissipation	200	mW
$T_J$	Junction Temperature	-55 to +150	°C
$T_{STG}$	Storage Temperature	-55 to +150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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#### OFF CHARACTERISTICS

$V_F$	Forward Voltage ( $I_F=1mA_{dc}$ )	---	---	0.37	Vdc
$I_R$	Reverse Current ( $V_R=10V_{dc}$ )	---	---	1	uAdc
$C_D$	Diode Capacitance ( $V_R=1V, f=1MHz$ )	---	---	5	pF

Note: Marking: 3J

# RB706F-40

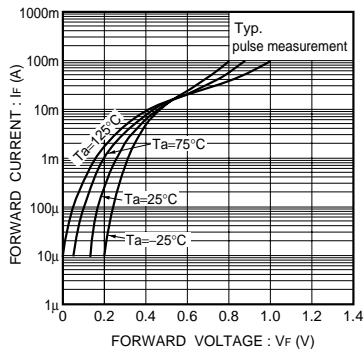


Fig. 1 Forward characteristics

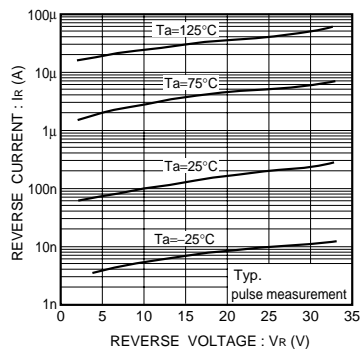


Fig. 2 Reverse characteristics

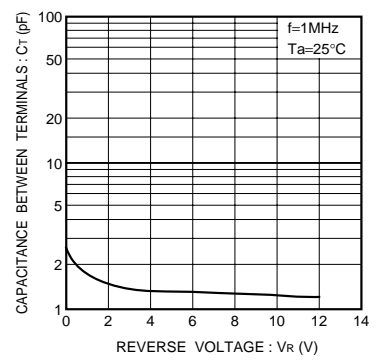


Fig. 3 Capacitance between terminals characteristics

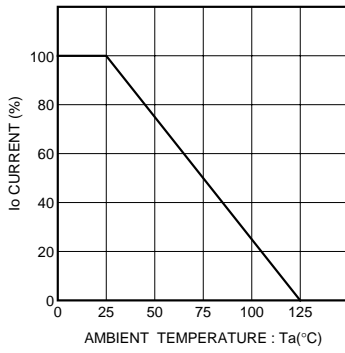


Fig 4. Derating curve (mounting on glass epoxy PCBs)

## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel