



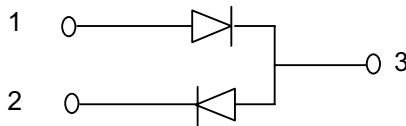
Micro Commercial Components

Micro Commercial Components
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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

Maximum Ratings

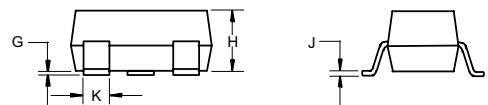
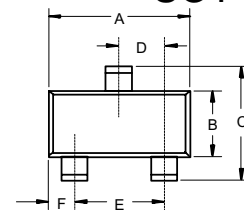
Symbol	Rating	Rating	Unit
V_{RM}	Peak Reverse Voltage	45	V
V_R	DC Reverse Voltage	40	V
I_O	Mean Rectifying Current	30	mA
I_{FSM}	Peak Forward Surge Current	200	mA
P_D	Power Dissipation	200	mW
T_J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V_F	Forward Voltage ($I_f=1mA_{dc}$)	---	---	0.37	Vdc
I_R	Reverse Current ($V_R=10V_{dc}$)	---	---	1	μA_{dc}
C_D	Diode Capacitance ($V_R=1V, f=1MHz$)	---	---	5	pF

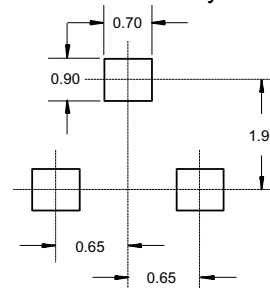
Note: Marking: 3J

SOT-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.079	.087	2.00	2.20	
D	.026 Nominal		0.65 Nominal		
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



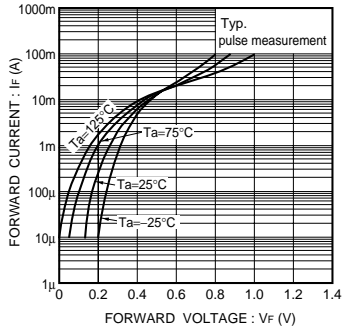


Fig. 1 Forward characteristics

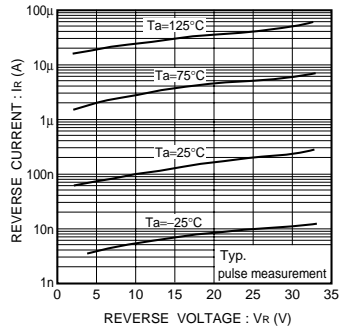


Fig. 2 Reverse characteristics

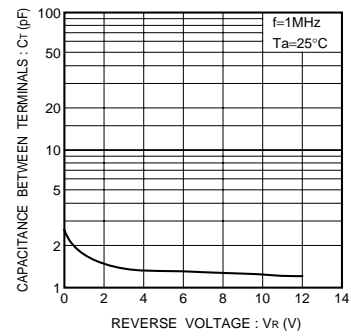


Fig. 3 Capacitance between terminals characteristics

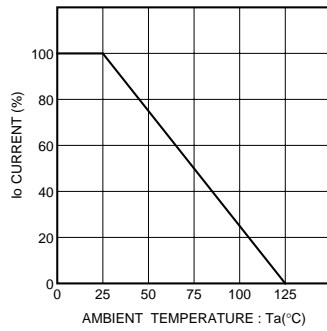


Fig 4. Derating curve
(mounting on glass epoxy PCBs)



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Ordering Information

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

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