

## **Features**

- High Reliability
- Low VF and Low IR
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P"Suffix Designates RoHS Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 1)

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
RB706F-40	3J	45V	40V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Mean Rectifying Current	Io	30mA	
Peak Forward Surge Current	I <sub>FSM</sub>	200mA	
Power Dissipation	P <sub>d</sub>	200mW	
Forward Voltage	V <sub>F</sub>	0.37V(Max)	I <sub>F</sub> =1mA
Reverse Current	I <sub>R</sub>	1μA(Max)	V <sub>R</sub> = 10V
Diode Capacitance	C <sub>D</sub>	5pF(Max)	V <sub>R</sub> =1V, f=1MHz

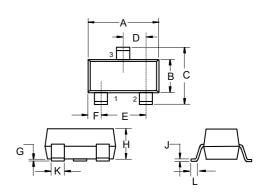
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

#### **Internal Structure:**



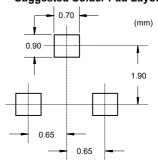
# 40 Volts Schottky Barrier Diode





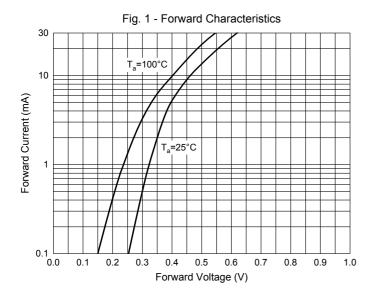
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
Е	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

### **Suggested Solder Pad Layout**





# **Curve Characteristics**



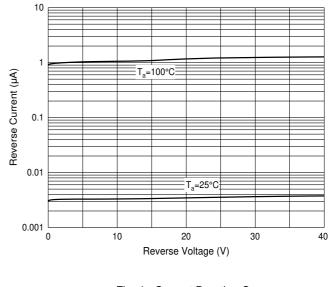
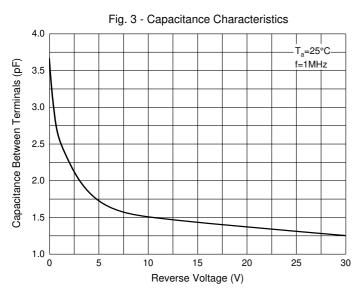
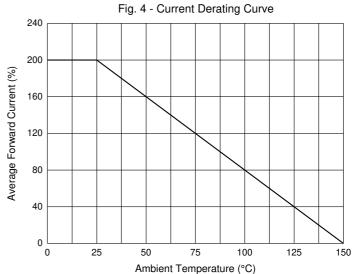


Fig. 2 - Reverse Characteristics







# **Ordering Information**

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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