



**THE DATASHEET OF  
BAT720WT-TP**



**Features**

- Halogen Free. "Green" Device (Note 1)
- Very Low Forward Voltage Drop.
- Guard Ring Protected
- Untral Small Surface Mount Package
- 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)

**Maximum Ratings**

- Operating Junction Temperature: 125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note1):286°C/W Junction to Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAT720WT	40V	28V	40V

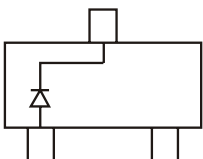
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Average Rectified Current (Note 1)	$I_O$	0.5A	
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	2.0A	8.3ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC Method)
Power Dissipation(Note 2)	$P_d$	350mW	
Forward Voltage(Note 2)	$V_F$	0.55V(Max)	$I_F=500mA$
Reverse Current(Note 3)	$I_R$	100µA(Max)	$V_R = 35V$
Capacitance	$C_T$	95pF(Typ.)	$V_R=0V, f=1.0MHz$

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

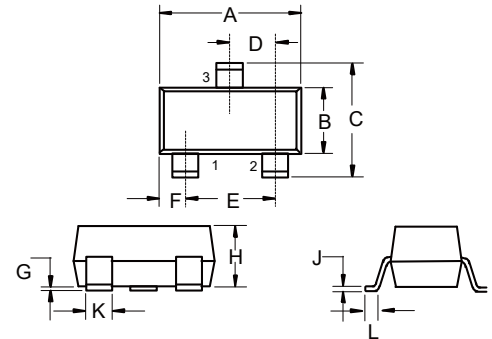
- 2.Part mounted on FR-4 PC board with recommended pad layout
- 3.Short duration test pulse used to minimize self-heating effect.

**Internal Structure:**



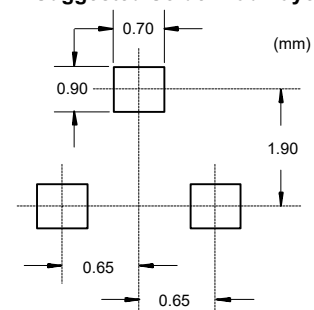
**350mW  
Schottky Diodes  
40 Volts**

**SOT-323**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.071	0.087	1.80	2.20	
B	0.045	0.053	1.15	1.35	
C	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
E	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	
H	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. 1 - Forward Characteristics

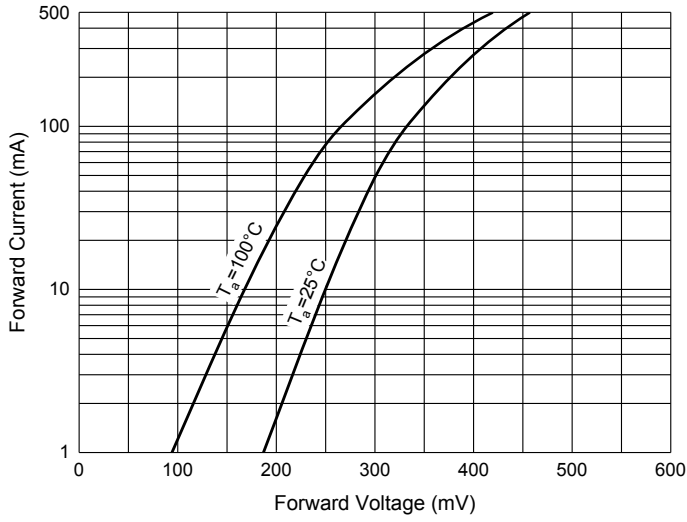


Fig. 2 - Reverse Characteristics

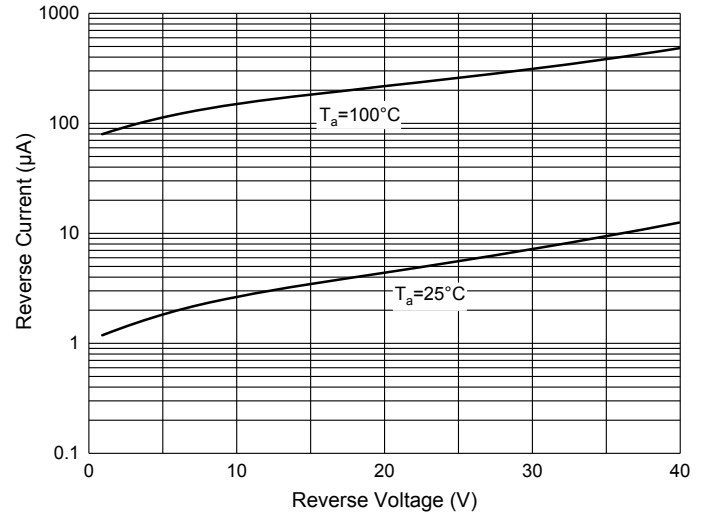


Fig. 3 - Capacitance Characteristics

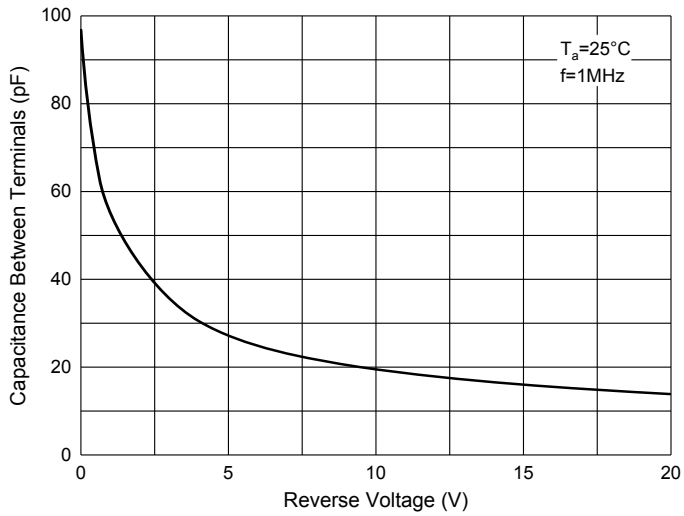
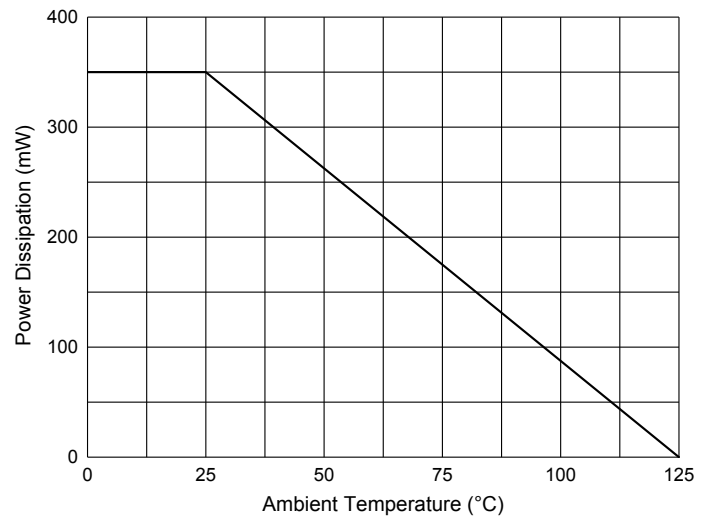


Fig. 4 - Power Derating Curve



## Ordering Information

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

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