

**Features**

- Halogen Free. "Green" Device (Note 1)
- Very Low Forward Voltage Drop
- Guard Ring Protected
- Untral Small Surface Mount Package
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Weight: 0.008 Grams (Approx.)

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance<sup>(Note 2)</sup>: 286°C/W Junction to Ambient

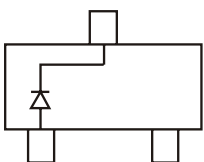
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAT720	L61	40V	28V	40V

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

Average Forward Current <sup>(Note 2)</sup>	$I_{F(AV)}$	0.5A	
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	2.0A	8.3ms Half Sine
Power Dissipation <sup>(Note 2)</sup>	$P_d$	350mW	
Forward Voltage <sup>(Note 2)</sup>	$V_F$	0.55V(Max)	$I_F=500mA$
DC Reverse Current At Rated DC Blocking Voltage <sup>(Note 3)</sup>	$I_R$	100µA(Max)	$V_R = 35V$
Junction Capacitance	$C_T$	90pF(Typ.)	$(V_R=0, f=1.0MHz)$

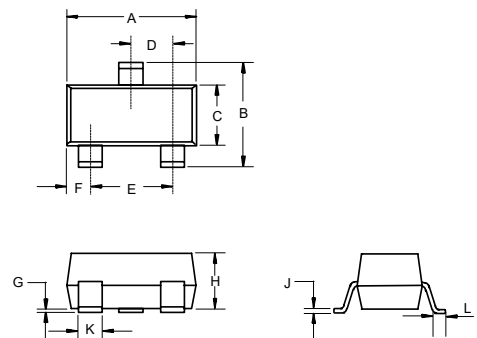
- Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.  
 2.Part mounted on FR-4 PC board with recommended pad layout  
 3.Short duration test pulse used to minimize self-heating effect.

**Internal Structure:**



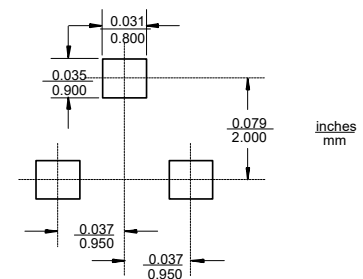
**350mW  
Schottky Diodes  
40 Volts**

**SOT-23**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.083	0.104	2.10	2.64	
C	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
H	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

**Suggested Solder Pad Layout**



**Curve Characteristics**

Fig. 1 - Forward Characteristics

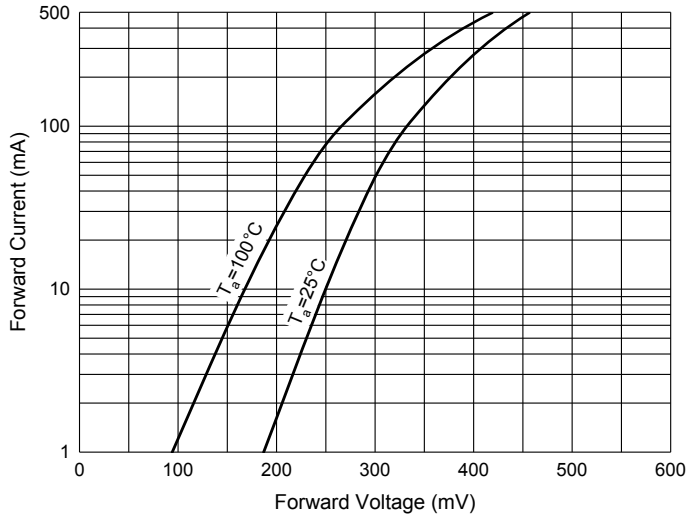


Fig. 2 - Reverse Characteristics

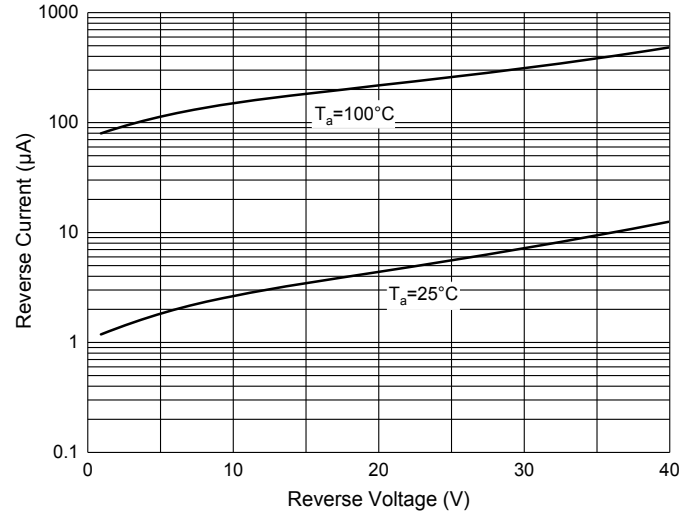


Fig. 3 - Capacitance Characteristics

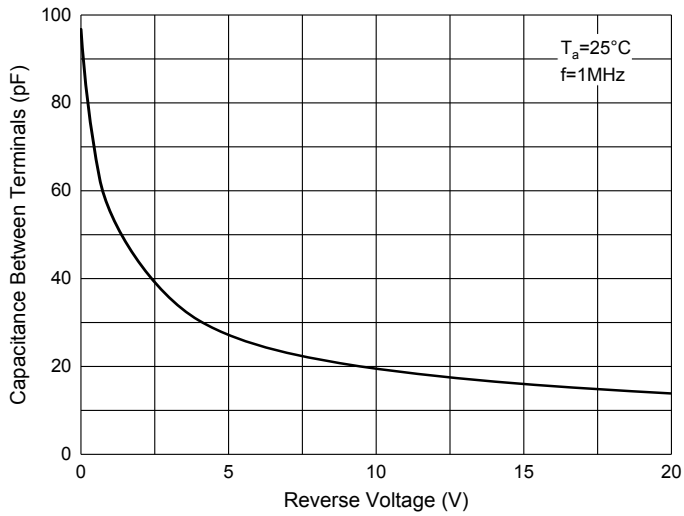
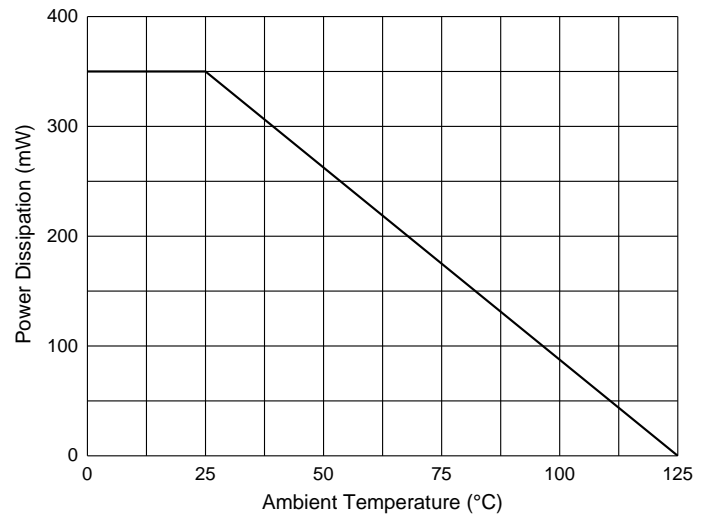


Fig. 4 - Power Derating Curve



### Ordering Information

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

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