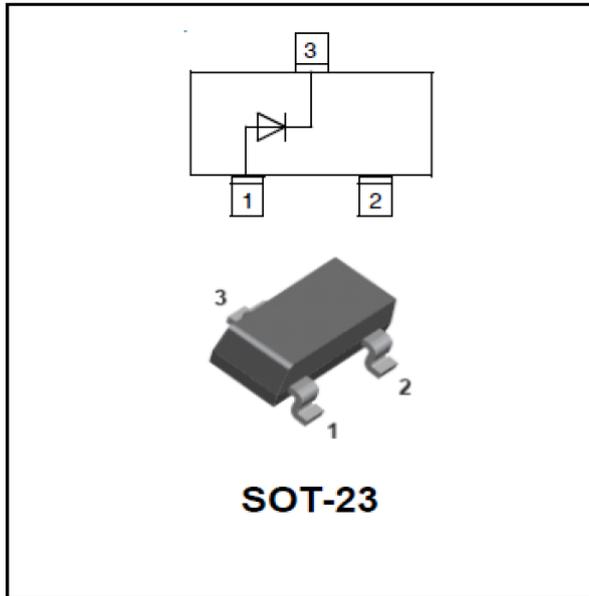


Schottky Rectifier



Features

- VR 40V
- IF 0.5A
- For Surface Mount Application and High Current Capability
- Low Forward Voltage Drop

Mechanical Data

- **Package:** SOT-23
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** L61

■ Maximum Rating, ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Value
Peak Reverse Voltage	V_{RRM}	V	40
Reverse Voltage	V_R	V	40
Forward Continuous Current	I_F	mA	500
Peak Forward Surge Current @ 8.3ms Half Sine	I_{FSM}	A	2
Power Dissipation	P_D	mW	350
Thermal Resistance, Junction to Ambient	R_{thJA}	$^\circ\text{C}/\text{W}$	286
Storage Temperature	T_{STG}	$^\circ\text{C}$	-55 to +150
Operating Junction Temperature	T_j	$^\circ\text{C}$	125

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT720	F2	Approximate 0.009	3000	30000	120000	7" reel



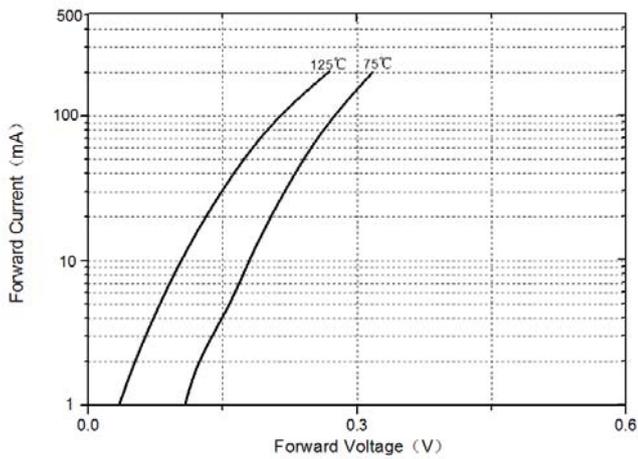
BAT720

■ Electrical Characteristics (T_a=25°C Unless otherwise specified, Per Leg)

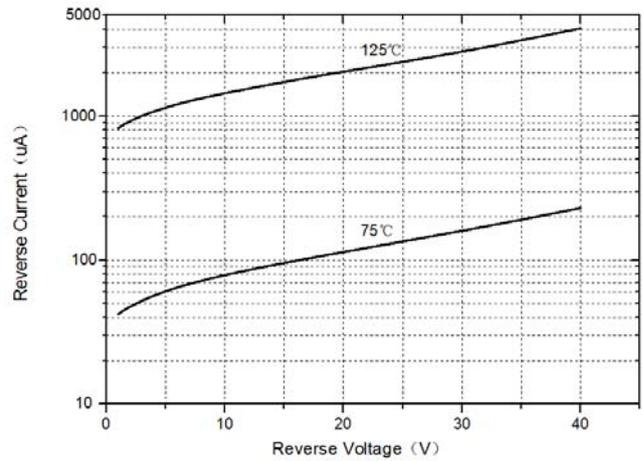
Item	Symbol	Unit	Conditions	Value
Reverse Voltage	V _R	V	I _R =100uA	40
Maximum Instantaneous Forward Voltage	V _F	V	I _F =500mA	0.55
Maximum DC Reverse Current	I _R	uA	V _R =35V	100

■ Typical Characteristics

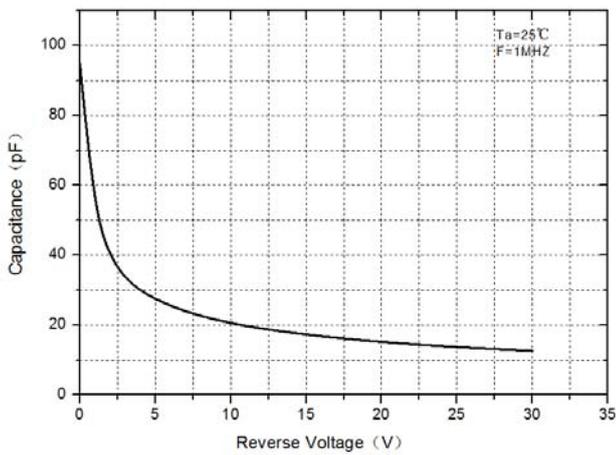
Forward Characteristics



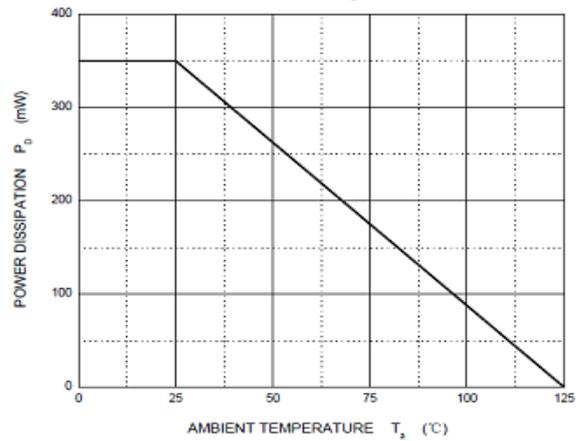
Reverse Characteristics



Capacitance Characteristics



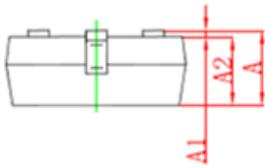
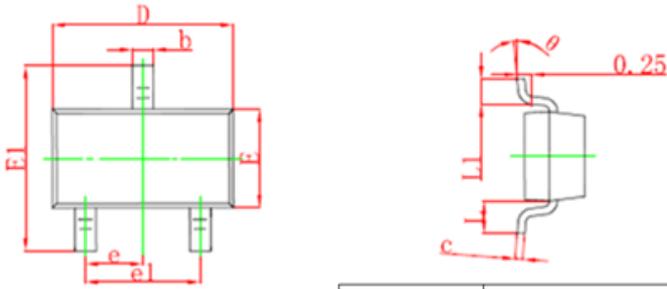
Power Derating Curve





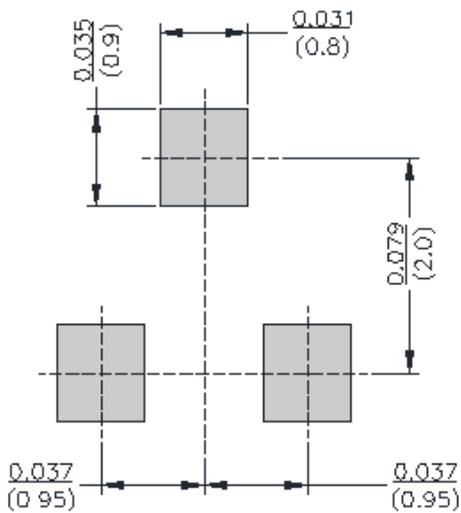
BAT720

■SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

■SOT-23 Suggested Pad Layout





BAT720

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