



Micro Commercial Components  
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# BAS40LP

**120 mA**  
**Schottky Rectifier**  
**40 Volts**

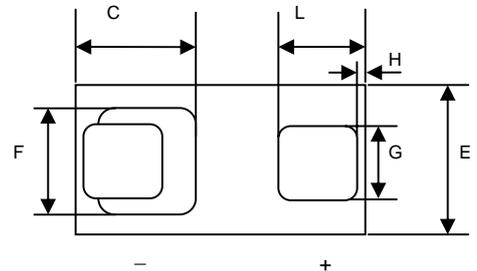
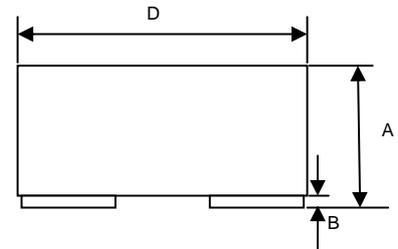
## Features

- Small surface mounting type
- 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)
- Low diode capacitance. Low forward voltage
- Halogen free available upon request by adding suffix "-HF"
- Guard ring protected
- Marking: S6

## Maximum Ratings

Symbol	Rating	Rating	Unit
V <sub>R</sub>	DC Reverse Voltage	40	V
I <sub>O</sub>	Mean Rectifying Current	120	mA
I <sub>FSM</sub>	Peak Forward Surge Current*	0.2	A
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-65 to +150	°C

## SOD-882



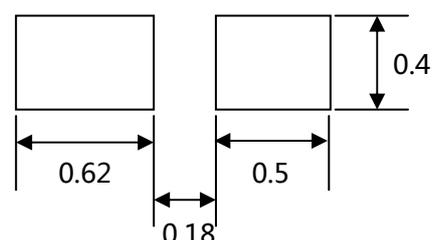
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V <sub>F</sub>	Forward Voltage (I <sub>F</sub> =1mA <sub>dc</sub> ) (I <sub>F</sub> =10mA <sub>dc</sub> ) (I <sub>F</sub> =40mA <sub>dc</sub> )	---	---	0.38 0.5 1	V <sub>dc</sub>
I <sub>R</sub>	Reverse Current (note1) (V <sub>R</sub> =30V <sub>dc</sub> ) (V <sub>R</sub> =40V <sub>dc</sub> )	---	---	1 10	uA <sub>dc</sub>
C <sub>d</sub>	Diode capacitance (V <sub>R</sub> =0V, f=1MHz)	---	---	5	pF

Note:  
 1. pulse test: t<sub>p</sub>=300µs; δ=0.02

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.003	0.01	0.07	
C	0.019REF.		0.470REF.		
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.017 REF.		0.420 REF.		
G	0.011	0.015	0.27	0.37	
H	0.001 REF.		0.030 REF.		
L	0.013	0.017	0.34	0.44	

Suggested Solder  
 Pad Layout





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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