



Micro Commercial Components



Micro Commercial Components  
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## B5818LWS

### Features

- Halogen free available upon request by adding suffix "-HF"
- Guard Ring Protection
- Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters
- High Surge Current Capability
- 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 Temperature: -65°C to +125°C
- Storage Temperature: -65°C to +150°C
- Maximum Thermal Resistance; 500°C/W Junction To Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B5818LWS	SKL	30V	21V	30V

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

Average Forward Current	$I_{F(AV)}$	1.0A	$T_c = 90^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	10A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	0.45V	$I_{FM} = 1.0\text{A}; T_J = 25^\circ\text{C}$ (Note 1)
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	200 $\mu\text{A}$	$T_A = 25^\circ\text{C}$
Typical junction capacitance	$C_J$	120pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

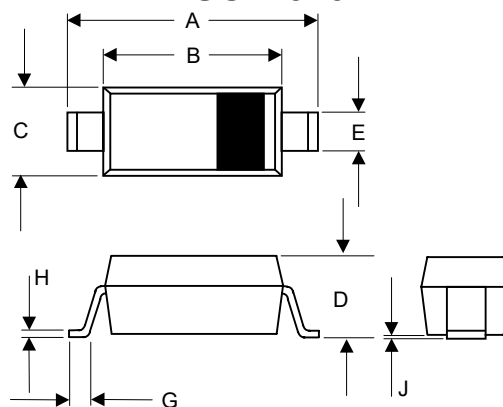
Notes: 1. Pulse Test: Pulse Width 300 $\mu\text{sec}$ , Duty Cycle 2%

### 1 Amp Low VF

### Schottky Barrier Rectifier

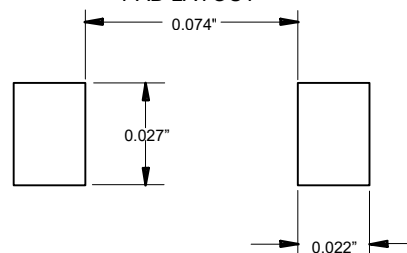
### 30 Volts

#### SOD-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

#### SUGGESTED SOLDER PAD LAYOUT





## Ordering Information :

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

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

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