



Micro Commercial Components



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SBLB1040

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Guardring for overvoltage protection
- Low Forward Voltage Drop and Low Power Loss
- High Forward Surge Capability, High Efficiency

Maximum Ratings

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +125°C
- Typical Thermal Resistance: 2.0°C/W junction to case

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SBLB1040	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

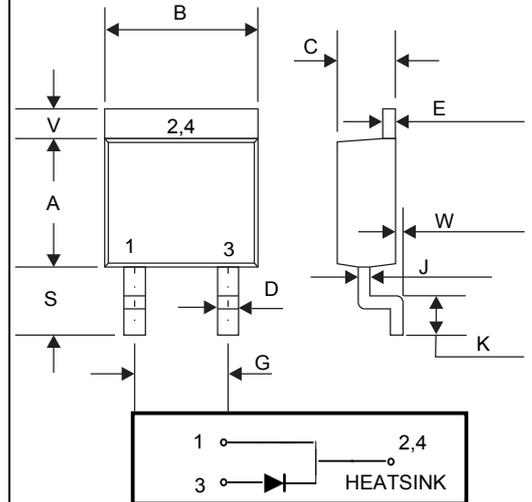
Average Forward Current	$I_{F(AV)}$	10 A	$T_C = 110^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	250A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	0.6V	$I_F = 10A;^*$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1.0mA 50mA	$T_C = 25^\circ\text{C}$ $T_C = 100^\circ\text{C}$

*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

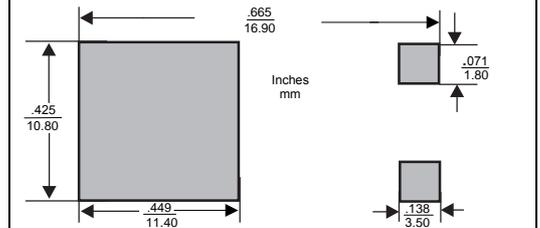
10 Amp Low VF Schottky Barrier Rectifier 40 Volts

D²PAK



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.354	.370	9.00	9.40	
B	.386	.409	9.80	10.40	
C	.169	.185	4.30	4.70	
D	.055	.063	1.40	1.60	
E	.045	.055	1.15	1.40	
G	.189	.205	4.80	5.20	
J	.016	.024	0.40	0.60	
K	.092	.108	2.30	2.70	
S	.176	.192	4.40	4.80	
V	.032	.046	0.80	1.20	
W	.001	.012	0.05	0.30	

SUGGESTED SOLDER PAD LAYOUT





Ordering Information :

Device	Packing
SBLB1040-TP	Tape&Reel: 800pcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. SBLB1040-TP-HF

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