

# Preliminary\_SBLF3080C

## Low VF Schottky Barrier Rectifier

### Features

- Low forward voltage drop, low power losses
- High efficiency operation
- Solder bath temperature 275 °C max. 10 s, per JESD

22-B106

- RoHS compliant package

### Mechanical Data

- Case: ITO-220AB
- Molding compound meets UL 94 V-0 flammability
- RoHS compliant, and commercial grade
- Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD 22-B102

J-STD-002 and JESD 22-B102

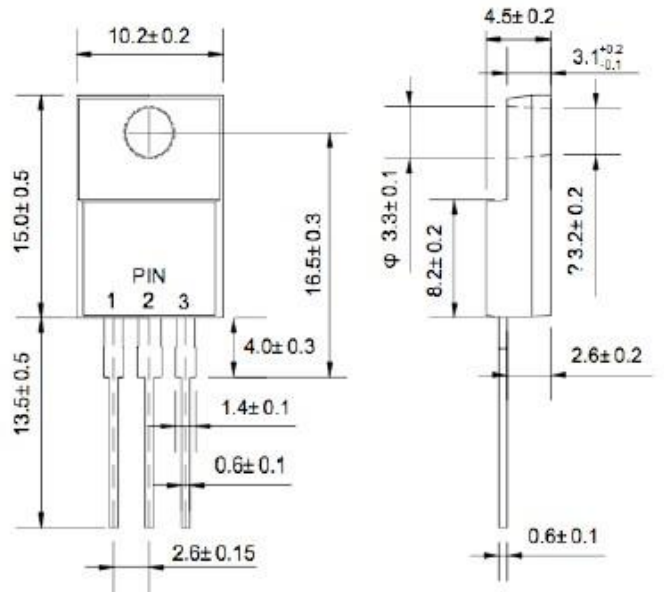
- Polarity: As marked

### Packing & Order Information

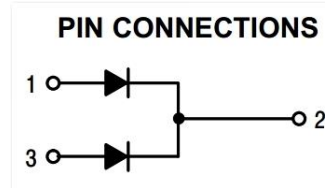
50/Tube ; 1,000/Box



**RoHS**  
COMPLIANT



### Graphic symbol



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

### Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	SBLF3080C	Unit
Maximum repetitive peak reverse voltage	VRRM	80	V
Working peak reverse voltage	VRWM	80	V
Maximum DC blocking voltage	VDC	80	V
Maximum average forward rectified current per device per diode	IF(AV)	30 15	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	180	A
Voltage rate of change (rated VR)	dv/dt	10000	V/μs
Operating junction temperature range	TJ	-55 to +175	°C
Storage temperature range	TSTG	-55 to +175	°C

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### Electrical characteristics (Tc=25°C unless otherwise noted)

Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage at IF=15A, Tj=25°C at IF=15A, Tj=125°C	VF	0.80 0.65	0.82 0.72	V
Maximum reverse current per leg Tj=25°C	IR	0.5		m'A
at working peak reverse voltage Tj=125°C		30		m'A

### Thermal characteristics (Tc=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Typical thermal resistance	Rthjc	5.0	°C/W

**Notes:**

- (1) Pulse test: 300 μs pulse width, 1 % duty cycle
- (2) Pulse test: Pulse width ≤ 40 ms

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