

## Preliminary BS14FL

### Schottky Barrier Diode

#### Features

- Low forward voltage
- Fast switching time
- Surface mount package ideally suited for automatic insertion
- RoHS compliant package

#### Applications

- Schottky barrier detector and switching diodes

#### Mechanical

#### Data

- Case: SOD-123F Plastic
- Case Material: "Green" molding compound, UL
- Flammability classification 94V-0, (No Br. Sb. Cl) •

#### Moisture

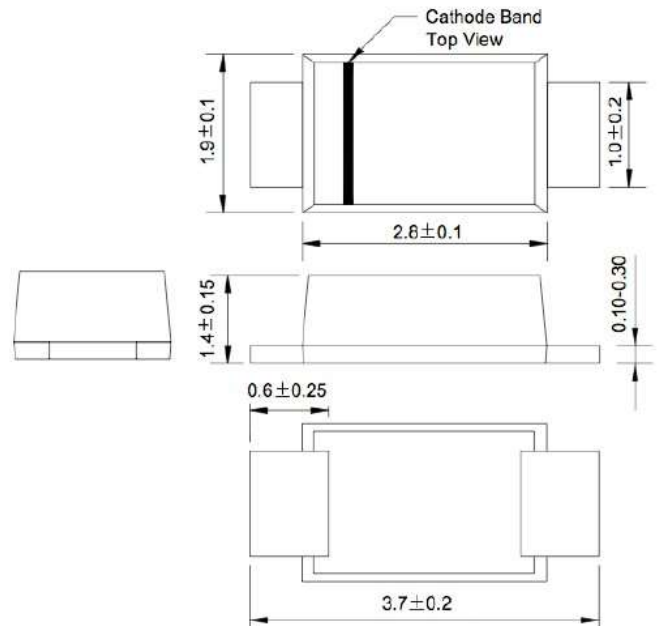
- Sensitivity: Level 1 per J-STD-020D

#### Packing & Order Information

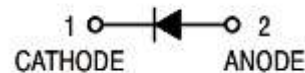
3,000/Reel



**RoHS**  
COMPLIANT



#### Graphic symbol



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	BS14FL	Unit
Maximum repetitive peak reverse voltage	VRRM	40	V
Working peak reverse voltage	VRWM	40	V
Maximum DC blocking voltage	VDC	40	V
Maximum average forward rectified current Total device	IF(AV)	1	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30	A
Thermal resistance, junction to ambient air	Rθja	88	°C/W
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	TSTG	-55 to +150	°C

Note: Mount on FR4, P.C.B



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

Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage at IF=1A, Tj=25°C	VF		0.50	V
Maximum reverse current at VR=40V	IR	100		u'A
Reverse recovery time (IF=IR=10mA Irr=0.1*IR RL=100Ω)	Trr	5.0		ns

Note: Mount on FR4, P.C.B

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