

Schottky Barrier Diode

BS24FL

FEATURES

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

APPLICATIONS

Schottky barrier detector and switching diodes

MECHANICAL DATA

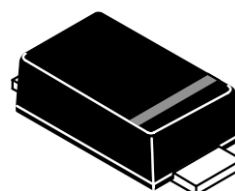
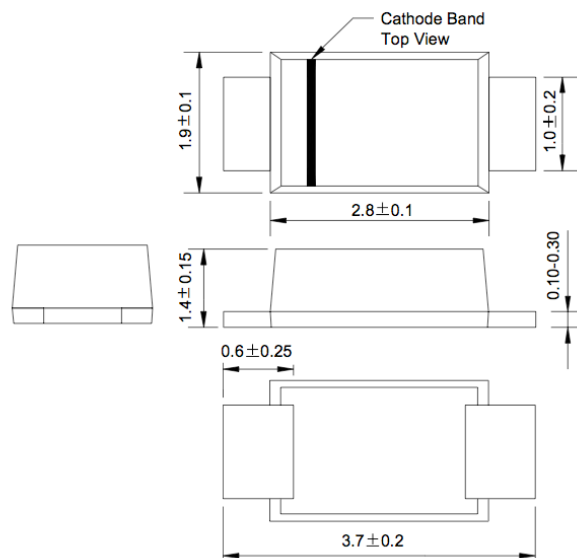
Case: SOD-123FL Plastic

Case Material: "Green" molding compound, UL

Flammability classification 94V-0, (No Br. Sb. Cl) • Moisture

Sensitivity: Level 1 per J-STD-020D

Lead Free in RoHS 2002/95/EC Compliant



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

Parameter	Symbol	BS24FL	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)	2	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50	A
Thermal resistance, junction to ambient air	Rθja	60	°C/W
Operating junction temperature range	TJ	-55 to +125	°C
Storage temperature range	TSTG	-55 to +150	°C

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

Parameter	Symbol	Value		Unit
		Min	Max	
Maximum instantaneous at IF=2A, Tj=25°C	VF		0.50	V
Maximum reverse current at VR=40V	IR	500		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