

## Schottky Barrier Diode

### BL1200W

#### FEATURES

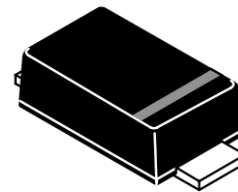
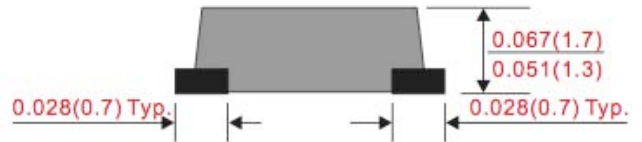
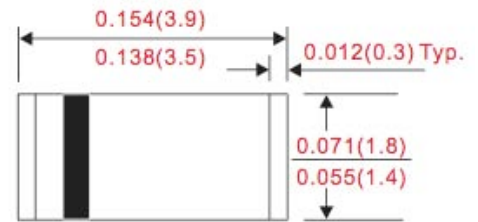
- Low forward voltage
- Fast switching time
- Surface mount package ideally suited for automatic insertion

#### APPLICATIONS

- Schottky barrier detector and switching diodes

#### MECHANICAL DATA

- Case: SOD-123F 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	BL1200W	Unit
Maximum repetitive peak reverse voltage	VRRM	200	V
Working peak reverse voltage	VRWM	200	V
Maximum DC blocking voltage	VDC	200	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	50	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

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

Parameter	Symbol	Value		Unit
		Min	Max	
Maximum instantaneous at IF=1A, Tj=25°C	VF		0.82	V
Maximum reverse current at VR=200V	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

## Rating and characteristic curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

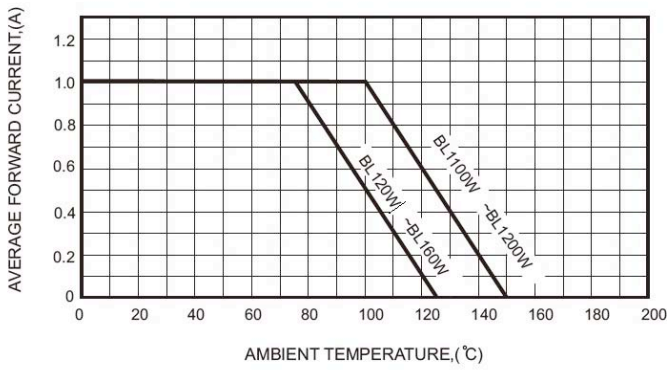


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

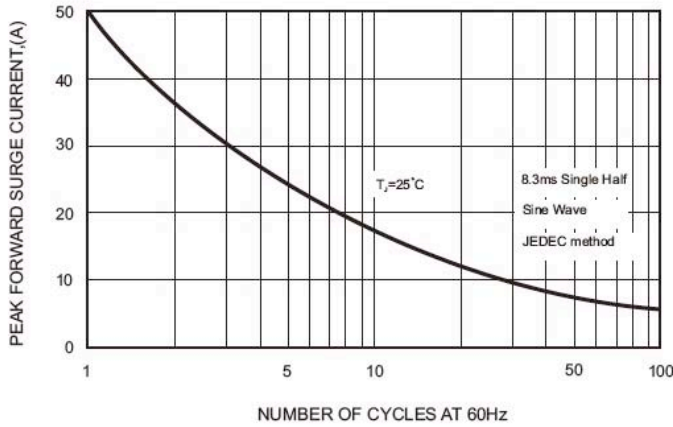


FIG.4-TYPICAL JUNCTION CAPACITANCE

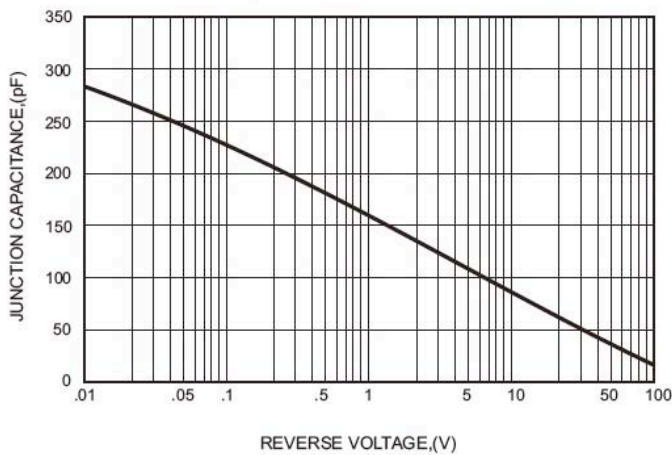


FIG.2-TYPICAL FORWARD CHARACTERISTICS

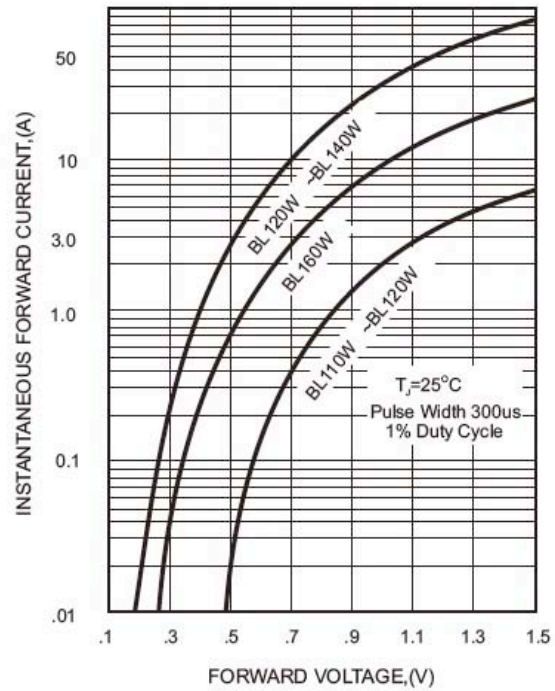


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

