

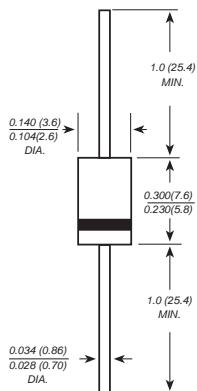


# SB2100L

## SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 100 Volts Forward Current - 2.0 Amperes

### DO-15



Dimensions in inches and (millimeters)

### FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction,majority carrier conduction
- Low power loss,high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:  
250°C/10 seconds,0.375"(9.5mm) lead length,  
5 lbs. (2.3kg) tension

### MECHANICAL DATA

**Case:** JEDEC DO-15 molded plastic body

**Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.014 ounce, 0.40 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

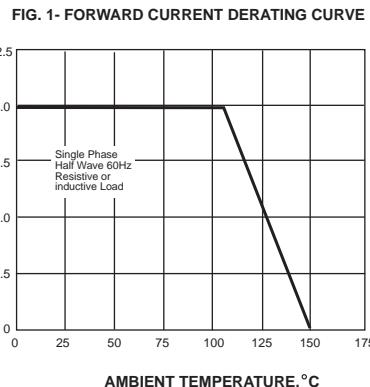
YXW Catalog Number	SYMBOLS	SB2100L	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	100	VOLTS
Maximum RMS voltage	V <sub>RMS</sub>	70	VOLTS
Maximum DC blocking voltage	V <sub>DC</sub>	100	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I <sub>(AV)</sub>	2.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	60.0	Amps
Maximum instantaneous forward voltage at 2.0A	V <sub>F</sub>	0.55	Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I <sub>R</sub>	0.5 5.0	mA
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	80	pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	50.0	°C/W
Operating junction temperature range	T <sub>J</sub>	-50 to +150	°C
Storage temperature range	T <sub>STG</sub>	-50 to +150	°C

**Note:**1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

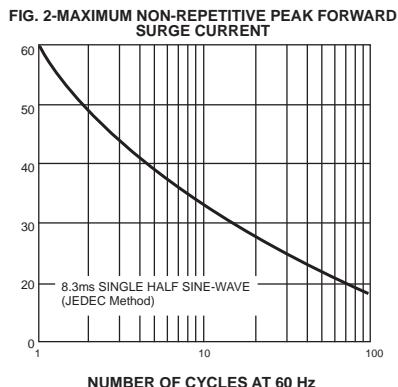
2.Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted

# RATINGS AND CHARACTERISTIC CURVES SB2100L

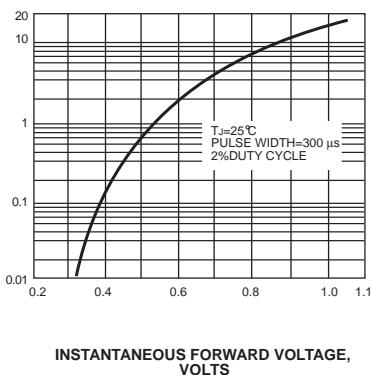
AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES



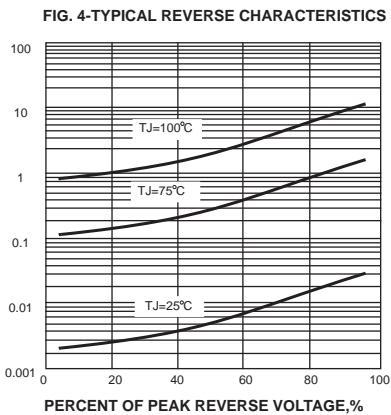
PEAK FORWARD SURGE CURRENT,  
AMPERES



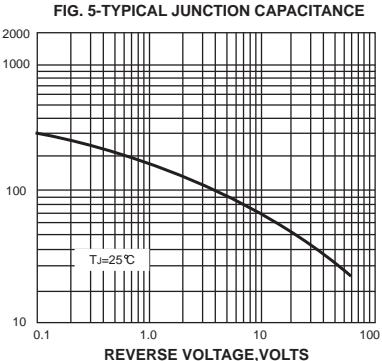
INSTANTANEOUS FORWARD  
CURRENT, AMPERES



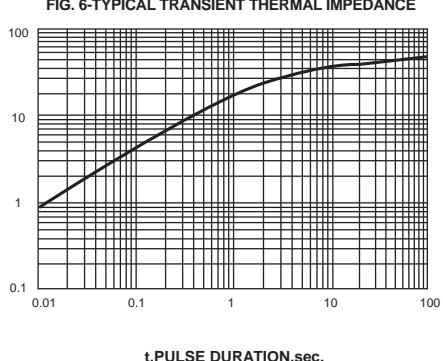
INSTANTANEOUS REVERSE CURRENT,  
MILLIAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,  
°C/W



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!