



# SB20100LCT

## DUAL LOW VF SCHOTTKY RECTIFIER

**VOLTAGE** 100 Volts **CURRENT** 20 Amperes

TO-220AB Unit: inch ( mm )

### FEATURES

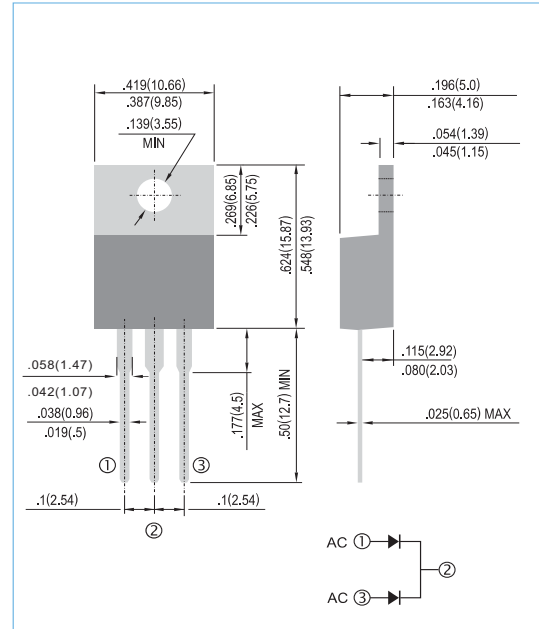
- Low forward voltage drop, low power losses
- High efficiency operation
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

Case : TO-220AB, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Weight: 0.0655 ounces, 1.859 grams.



### MAXIMUM RATINGS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	100	V
Maximum average forward rectified current (Fig.3)	I <sub>F(AV)</sub>	20 10	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	200	A
Typical thermal resistance	R <sub>θJC</sub>	2.5	°C/W
Operating junction	T <sub>J</sub>	-55 to + 150	°C
Storage temperature range	T <sub>STG</sub>	-55 to + 150	°C

### ELECTRICAL CHARACTERISTICS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V <sub>BR</sub>	I <sub>R</sub> =1.0mA	103	120	-	V
Instantaneous forward voltage per diode <sup>(1)</sup>	V <sub>F</sub>	I <sub>F</sub> =5A I <sub>F</sub> =10A T <sub>J</sub> =25°C	-	0.55 -	0.60 0.75	V
		I <sub>F</sub> =5A I <sub>F</sub> =10A T <sub>J</sub> =125°C	-	0.52 0.62	- 0.7	V
Reverse current per diode <sup>(2)</sup>	I <sub>R</sub>	V <sub>R</sub> =70V	-	12	40	μA
		V <sub>R</sub> =100V T <sub>J</sub> =25°C T <sub>J</sub> =125°C	- -	- -	500 35	μA mA

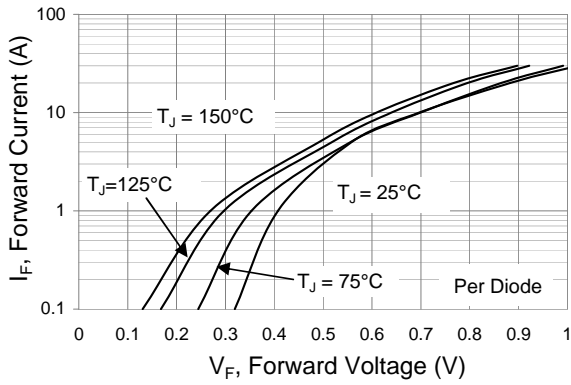
Note.1 Pulse test : 380μs pulse width, 1% duty cycle

2. Pulse test : Pulse width ≤ 2.5ms

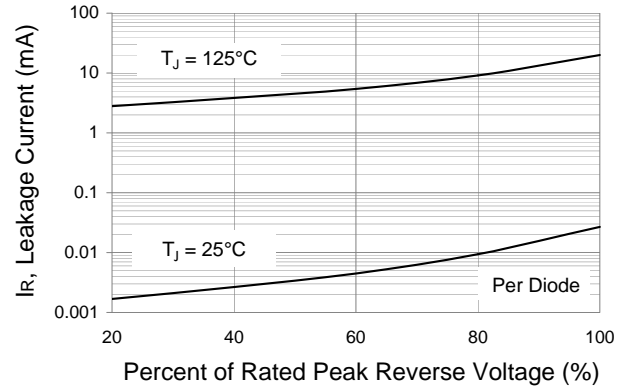
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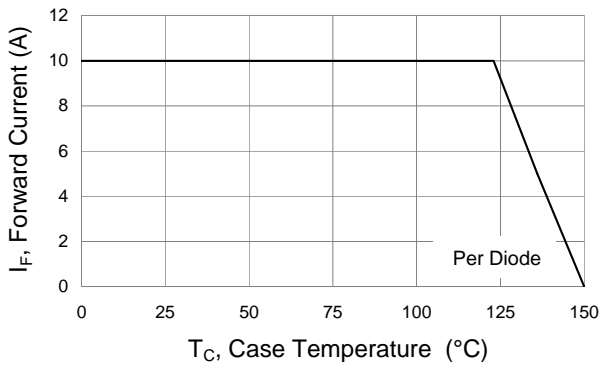
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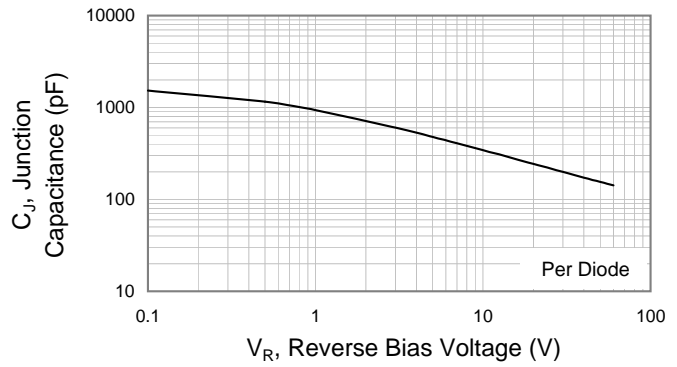
**Fig.1 Typical Forward Characteristics**



**Fig.2 Typical Reverse Characteristics**



**Fig.3 Forward Current Derating Curve**



**Fig.4 Typical Junction Capacitance**

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