



# LOW VF SCHOTTKY RECTIFIER VOLTAGE 100 Volts CU

100 Volts CURRENT 10 Amperes

#### FEATURES

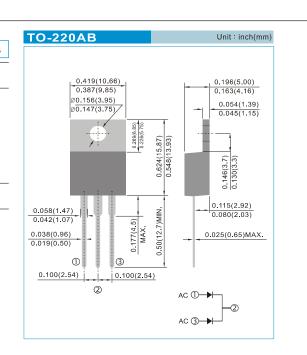
- · Low forward voltage drop, low power losses
- · High efficiency operation
- · Lead free in comply with EU RoHS 2011/65/EU directives

#### **MECHANICAL DATA**

Case : TO-220AB, Plastic

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

Weight: 0.0655 ounces, 1.859 grams



#### MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT	
Maximum repetitive peak reverse voltage		VRRM	100	V
Maximum rms voltage		Vrms	70	V
Maximum average forward rectified current	per device per diode	l f(AV)	10 5	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	I FSM	250	А
Typical thermal resistance		$R_{_{ ext{ heta}JC}}$	3.5	°C / W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

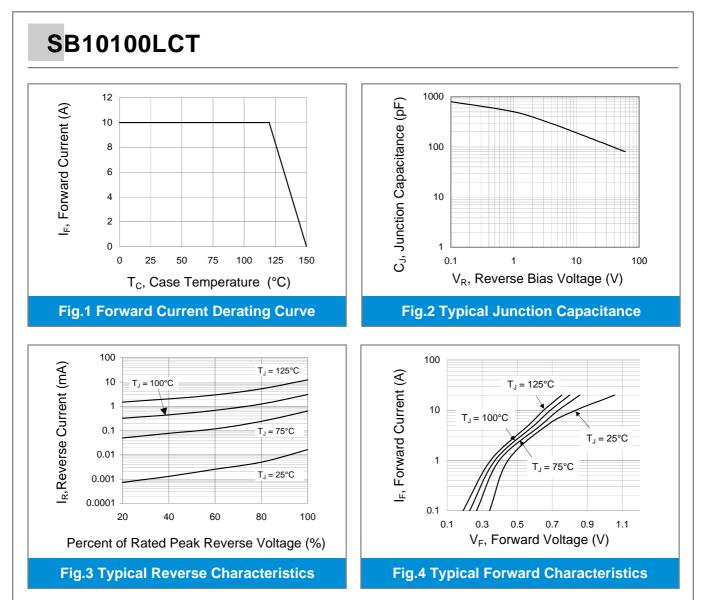
#### ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	Vbr	I R=0.5mA		-	100	-	V
Instantaneous forward voltage per diode (1)	VF	F=1A   F=2A   F=5A   F=1A   F=2A   F=5A	TJ=25°C TJ=125°C		0.45 0.56 0.67 0.35 0.48 0.60	- 0.60 0.72 - 0.52 0.64	V V
Reverse current per diode <sup>(2)</sup>	IR	VR=70V		-	10	-	μΑ
		VR=100V	TJ=25°C TJ=125°C	-	-	50 30	μA mA

NOTE :

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

2.Pulse test : Pulse width <\_2.5ms











# SB10100LCT

### Part No\_packing code\_Version

SB10100LCT\_T0\_00001 SB10100LCT\_00001 SB10100LCT\_T0\_10001 SB10100LCT\_10001

### For example :

RB500V-40\_R2\_00001

Т

Part No.

Serial numberVersion code means HF

Packing size code means 13"

• Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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