



# SB3060LCT

## DUAL HIGH-VOLTAGE SCHOTTKY RECTIFIER

**VOLTAGE** 60 Volts **CURRENT** 30 Amperes

**TO-220AB**

Unit : inch(mm)

### FEATURES

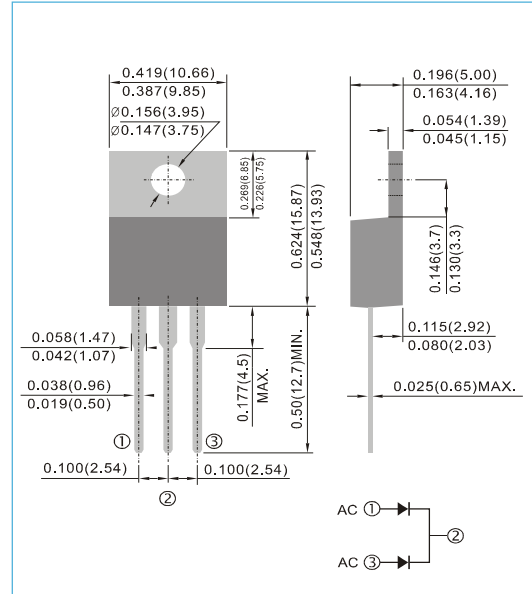
- Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

### MECHANICAL DATA

Case : TO-220AB, Plastic

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

Weight: 0.0655 ounces, 1.859 grams



### MAXIMUM RATINGS( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	60	V
Maximum average forward rectified current (Fig.1)	$I_{F(AV)}$	30 15	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode	$I_{FSM}$	250	A
Non-repetitive avalanche energy at $T_J=25^{\circ}\text{C}$ , $L=60\text{mH}$ per diode	$E_{AS}$	450	mJ
Typical Thermal Resistance	$R_{\theta JC}$	2.5	$^{\circ}\text{C}/\text{W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to + 150	$^{\circ}\text{C}$

### ELECTRICAL CHARACTERISTICS( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	$V_{BR}$	$I_R=1\text{mA}$	60	-	-	V
Instantaneous forward voltage per diode <sup>(1)</sup>	$V_F$	$I_F=15\text{A}$ $I_F=30\text{A}$	-	-	0.60 0.75	V
		$I_F=15\text{A}$ $I_F=30\text{A}$	-	0.48 0.64	0.56 0.70	V
Reverse current per diode <sup>(1)</sup>	$I_R$	$V_R=60\text{V}$	-	-	480	$\mu\text{A}$
		$V_R=60\text{V}$	-	-	150	mA

Note.1 Pulse test :  $t_p=380\mu\text{s}$ ,  $\delta<2\%$



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## RATINGS AND CHARACTERISTICS CURVES ( $T_A=25^\circ\text{C}$ unless otherwise noted)

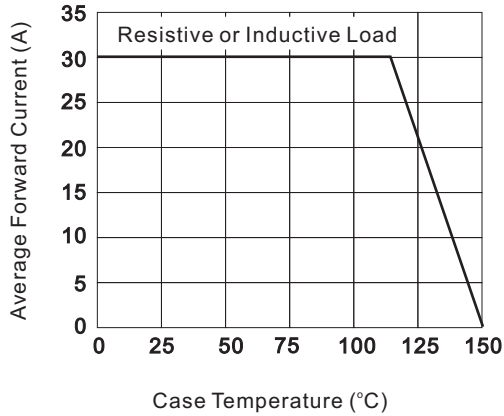


Figure 1. Forward Current Derating Curve

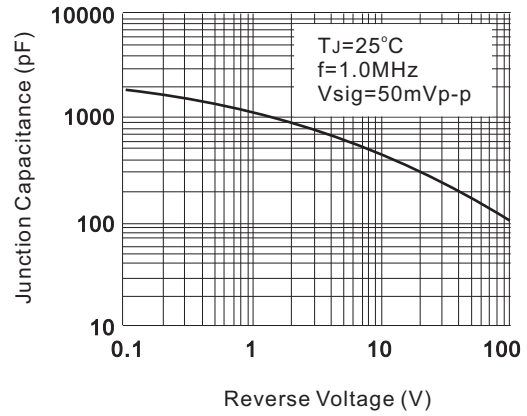


Figure 2. Typical Junction Capacitance

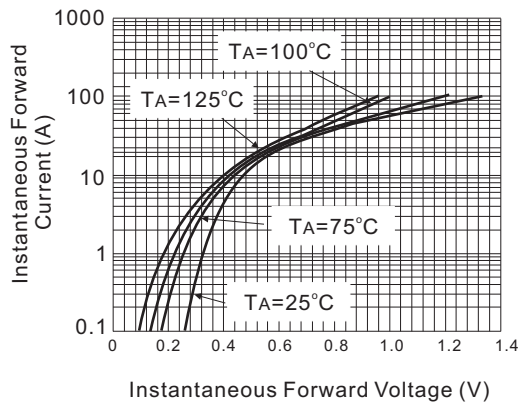


Figure 3. Typical Instantaneous Forward Characteristics Per Diode

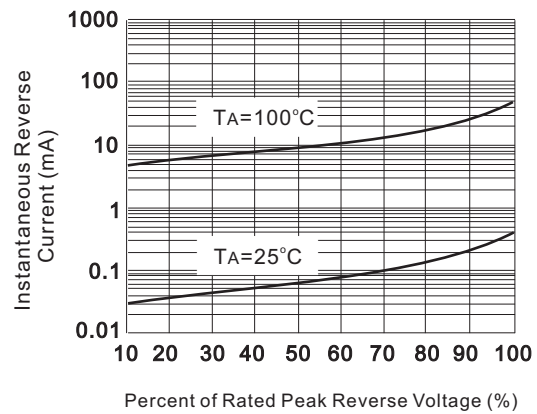


Figure 4. Typical Reverse Characteristics Per Diode



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## Part No\_packing code\_Version

SB3060LCT\_T0\_00001  
 SB3060LCT\_00001  
 SB3060LCT\_T0\_10001  
 SB3060LCT\_10001

For example :

**RB500V-40** **R2** **00001**



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)	B	13"	2			
Tube Packing (T/P)	T	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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