



DUAL HIGH-VOLTAGE SCHOTTKY RECTIFIER

VOLTAGE 100 Volts CURRENT 30 Ampers

FEATURES

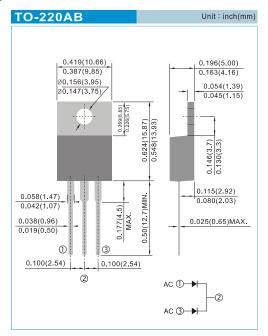
- Low forward voltage drop, low power losses
- · High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

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 average forward rectified current (Fig.1)	per device per diode	I F(AV)	30 15	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode	per diode	I FSM	275	А
Non-repetitive avalanche energy at T _J =25°C,L=60mH per diode		E _{AS}	300	mJ
Typical Thermal Resistance	per diode	R _{eJC}	2.5	°C / W
Operating junction and storage temperature range		ТЈ,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	V _{BR}	I _R =1.0mA		103	120	-	V
Instantaneous forward voltage per diode (1)	V _F	_=5A _=7.5A _=15A _=5A _=7.5A	T _A =25°C T _A =125°C	- - - -	0.52 0.58 0.72 0.46 0.53	- - 0.80 - -	V
Reverse current per diode (2)	I _R	I _F =15A V _R =70V		-	10	0.68	μΑ
		V _R =100V	T _A =25°C T _A =125°C	-	-	500 32	μA mA

Note.1 Pulse test: 300 µs pulse width, 1% duty cycle

2. Pulse test : Pulse widh < 40ms





RATINGS AND CHARACTERISTICS CURVES (TA=25°C unless otherwise noted)

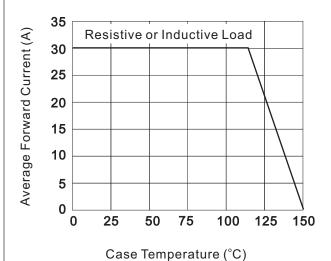


Figure 1. Forward Current Derating Curve

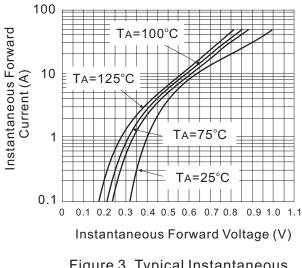


Figure 3. Typical Instantaneous Forward Characteristics Per Diode

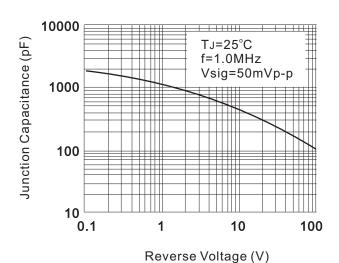
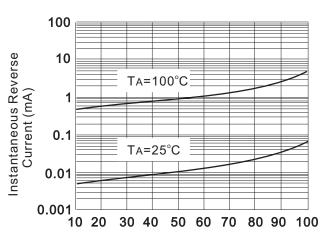


Figure 2. Typical Junction Capacitance



Percent of Rated Peak Reverse Voltage (%)

Figure 4. Typical Reverse Characteristics Per Diode





Part No_packing code_Version

SB30100LCT_T0_00001 SB30100LCT_00001 SB30100LCT_T0_10001 SB30100LCT_10001

For example:



Packing Code XX					Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	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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