ELECFORTUNE

<u> 寿基二極管</u> Case: TO-220

SB820CT - SB8100CT

SB820CT

Case Pin-2

8A Dual Schottky Barrier Rectifier

Figure

Pin-1

Pin-3

Feature

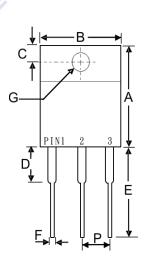
- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Reverse leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-0

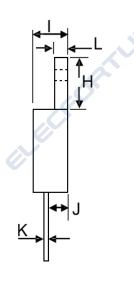
Mechanical Data

- ◆ Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 2.24 grams (approx)
- Mounting Position: Any
- Mounting Torque: 11.5 cm-kg (10 in-lbs) max.
- ◆ Lead Free: For RoHS / Lead Free Version Add "-LF" Suffix to part Number.

□ Dimension

Case: TO-2	(mm)			
Dim.	Min.	Max.		
А	13.9	15.9		
В	9.8	10.7		
С	2.54	3.43		
D	3.56	4.56		
E	12.7	14.73		
F	0.51	0.96		
G (Φ)	3.55	4.09		
Н	5.75	6.85		
	4.16	5.0		
J	2.03	2.92		
K	0.3	0.65		
L	1.14	1.4		
Р	2.29	2.79		

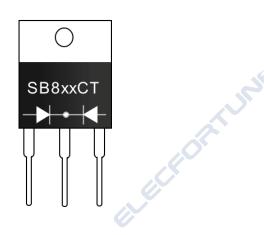




Marking Information



- хх
- Polarity = As Marked Body







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☐ Maximum Ratings and Electrical Characteristics @T_A=25℃ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load For capacitive load, derate current by 20%.

			00							
Characteristics	Symbol	SB	SB	SB	SB	SB	SB	SB	SB	Unit
		820CT	830CT	840CT	845CT	850CT	860CT	880CT	8100CT	Orme
Peak Repetitive Reverse Voltage V _R								X		
Working Peak Reverse Voltage	V _{RWM}	20	30	40	45	50	60	80	100	V
DC Blocking Voltage	V _R									
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	32	35	42	56	70	V
Average Rectified Output Current	l.	8.0				8.0	А			
@T _C =95℃	Ι _Ο			0.0		0.0		А		
Non-Repetitive Peak Forward Surge										
Current 8.3ms Single half sine-wave	I _{FSM}	150		150		150		A		
superimposed on rated load (JEDEC										
Forward Voltage @I _F =4.0A	V _{FM}	0.55 0.75 0.			.85	V				
Peak Reverse Current $@T_A = 25^{\circ}C$	1	0.5 50					mA			
At Rated DC Blocking Vol. @T _A =100	I _{RM}									
Typical Junction Capacitance (Note 1)	Ci	700					pF			
Operating and Storage Temperature Ran	T _J ,T _{STG}	-65 to +150					°C			

IF, INSTANEOUS FORWARD CURRENT

Cj CAPACITANCE (pF)

Note 1: Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.





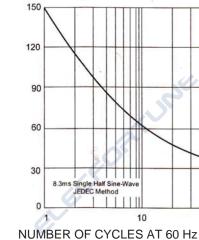
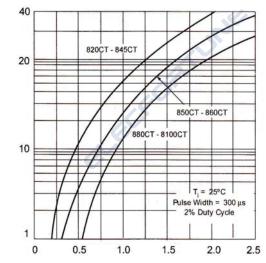
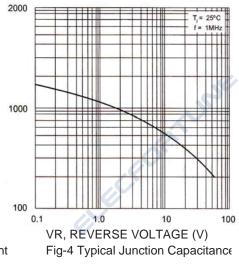


Fig-3 Maximum Non-Repetitive Paek FWD Surge Current

100



V_F, INSTANTANEOUS FORWARD VOLTAGE(V) Fig-2 Typical Forward Characteristics





I_{FSM}, PEAK FORWARD SURGE CURRENT (A)



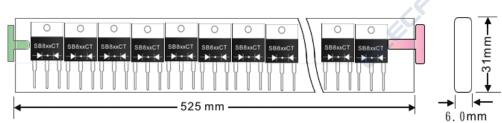
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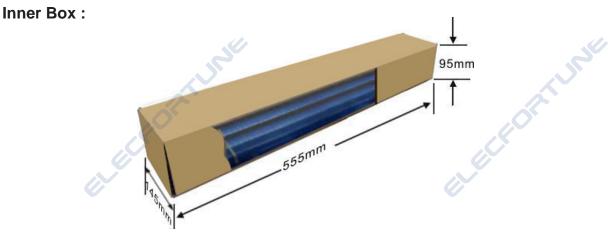
8A Dual Schottky Barrier Rectifier

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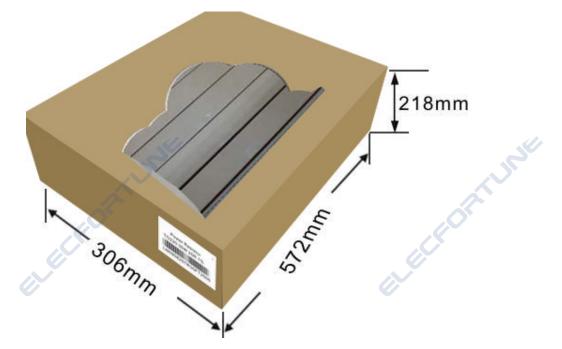
	Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Gross
	LxWxH (mm)	(Pcs)	LxWxH (mm)	(Pcs)	LxWxH (mm)	(Pcs)	Weight
	525 x 31 x6	50	555x145x95	2000	572x306x218	8000	19.0kg
Note: 1. Anti-static tube, water clear color.							
	Anti-static tube:				.0		



Bulk package: Anti-static tube, water clear color.



Carton Package:







<u>肖特基二極管</u> Case: TO-220

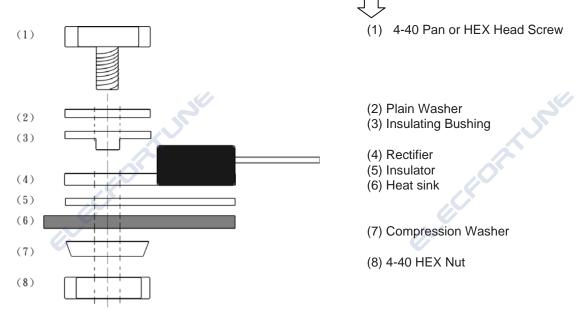
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Package Mounting Guide

It is important that the packages are correctly mounted if full functionality is to be achieved. Mounting of the package to a heat sink must be done such that there is sufficient pressure from the mounting screws to insure good contact with the heat sink for efficient heat flow. Incorrect mounting may lead to both thermal and mechanical problems. Over tightening the mounting screws will cause the package to warp reducing the contact area with the heat sink and increasing the thermal resistance from the package case to the heat sink, resulting in higher operating die temperatures. Extreme over tightening of the mounting screws beyond the recommended torque force will cause severe physical stress resulting in cracked die and catastrophic IC failure. Though the reliability of the package is excellent, the use of inappropriate techniques or unsuitable tools during the mounting process can affect the long term reliability of the device and even damage it.

Recommended Screw Mount Arrangement

electorium



Recommended isolated mounting when screw is at heat sink potential 4-40 hardware is used.

◆ Screw should not be tightened with any type of air-forced torque or equipment that may cause high impact on device package. The insulating bushing inside the mounting hole will insure the screw threads do not contact the metal base.

◆ The interface should apply a layer of thermal grease or a highly conductive thermal pad for better heat dissipation



