

SBL2060CTP

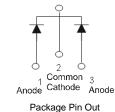
20A SCHOTTKY BARRIER RECTIFIER

Features

- Low Forward Voltage Drop
- Excellent High Temperature Stability
- Patented Super Barrier Rectifier Technology
- Soft, Fast Switching Capability
- UL Approval in Accordance with UL 1557, Reference No. E94661

Mechanical Data

- Case: ITO-220S
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208 ⁽¹⁾
- Marking Information: See Page 2
- Ordering Information: See Page 2
- Weight: 1.335 grams (approximate)



Package Pin Out Configuration

Maximum Ratings (Per Leg) @T_A = 25°C unless otherwise specified

Top View

Characteristic		Symbol	Value	Unit
			Value	5111
Peak Repetitive Reverse Voltage		V _{RRM}		
Working Peak Reverse Voltage		V _{RWM}	60	V
DC Blocking Voltage		V _{RM}		
Average Rectified Output Current	(Per Leg)		10	۵
· ·	(Total)	lo	20	A
Non-Repetitive Peak Forward Surge Curre			120	۵
Single Half Sine-Wave Superimposed on F	Rated Load	IFSM	130	A
Isolation Voltage				
From Terminal Heatsink t = 1 min.		VAC	2000	V

Bottom View

Thermal Characteristics (Per Leg)

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	3	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150	٥C

Electrical Characteristics (Per Leg) @T_A = 25°C unless otherwise specified

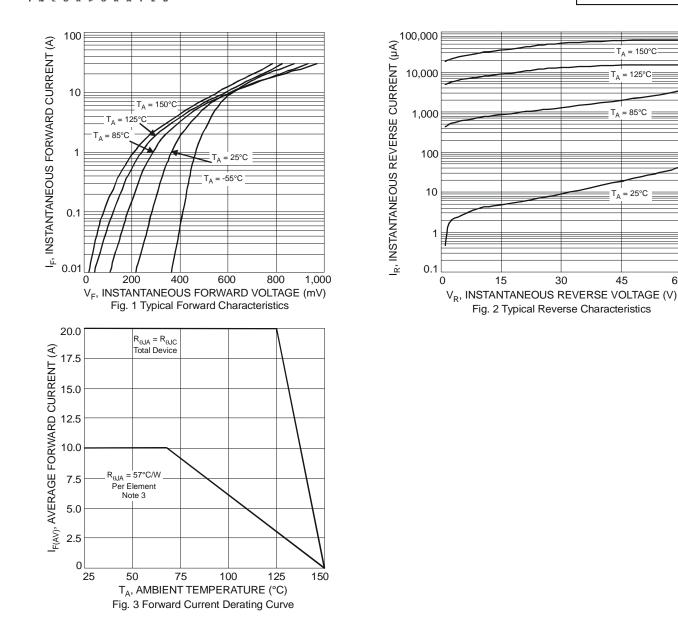
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Valtage Drep	VF	-	0.61	0.70	V	I _F = 10A, T _J = 25°C
Forward Voltage Drop	٧F	-	0.59	0.65		$I_F = 10A, T_J = 125^{\circ}C$
Leakage Current (Note 1)	1-	-	0.04	0.5	ma	$V_R = 60V, T_J = 25^{\circ}C$
	IR	-	-	50		V _R = 60V, T _J = 100°C

Notes: 1. Short duration pulse test used to minimize self-heating effect.



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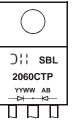


Ordering Information (Note 2)

2						
	Part Number	Case	Packaging			
	SBL2060CTP	ITO-220S	50 pieces/tube			

Notes: 2. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

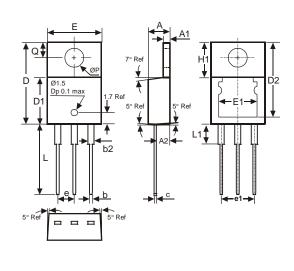
Marking Information



SBL2060CTP = Product Type Marking Code AB = Foundry and Assembly Code YYWW = Date Code Marking YY = Last two digits of year (ex: 08 = 2008) WW = Week (01-52)



Package Outline Dimensions



ITO-220S						
DIM.	MIN.	MAX.	TYP.			
Α	4.52	4.62	4.57			
A1	0.51	1.39	-			
A2	2.57	2.77	2.67			
b	0.72	0.95	0.84			
b2	1.15	1.34	1.26			
С	0.356	0.61	_			
D	14.22	16.51	15.00			
D1	8.60	8.80	8.70			
D2	13.68	14.08	-			
е	2.49	2.59	2.54			
e1	4.98	5.18	5.08			
Ε	10.01	10.21	10.11			
E1	6.86	8.89	_			
H1	5.85	6.85	-			
L	13.30	13.90	13.60			
L1	-	4.00	-			
Ρ	3.54	4.08	-			
Q	2.54	3.42	-			
All Dimensions in mm						

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