



OBSELETE – PART DISCONTINUED

Product Summary (@ T_A = +25°C, Per Leg)

V _{RRM} (V)	I _O (A)	V _{F(MAX)} (mV)	I _{R(MAX)} (mA)
60	10	700	0.5

Features and Benefits

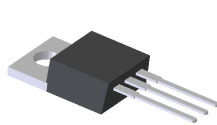
- Low Forward Voltage Drop
- Excellent High Temperature Stability
- Patented Super Barrier Rectifier Technology
- Soft, Fast Switching Capability
- UL Approval in Accordance with UL 1557, Reference No. E94661
- **Lead-Free Finish; RoHS Compliant (Notes 1 & 2)**

Applications

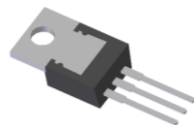
- SMPS
- Freewheeling Rectifiers
- DC-DC Converter

Mechanical Data

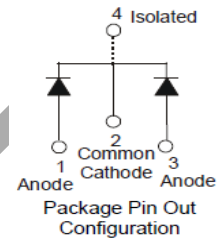
- Case: ITO-220S
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish Annealed Over Copper Lead frame. Solderable per MIL-STD-202, Method 208 (3)
- Weight: 1.335 grams (approximate)



Top View



Bottom View



Ordering Information (Note 3)

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

- Notes:
1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant. All applicable RoHS exemptions applied.
 2. See http://www.diodes.com/quality/lead_free.html for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
 3. For packaging details, go to our website at <http://www.diodes.com/products/packages.html>

Marking Information



SBL2060CTP = Product Type Marking Code
 AB = Foundry and Assembly Code
 YYWW = Date Code Marking
 YY = Last two digits of year (ex: 14 =2014)
 WW = Week (01 - 53)

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

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

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _R RM	60	V
Working Peak Reverse Voltage	V _R WM		
DC Blocking Voltage	V _R M		
Average Rectified Output Current (Per Leg) (Total)	I _o	10 20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	130	A
Isolation Voltage From Terminal Heatsink t = 1 min.	V _{AC}	2000	V

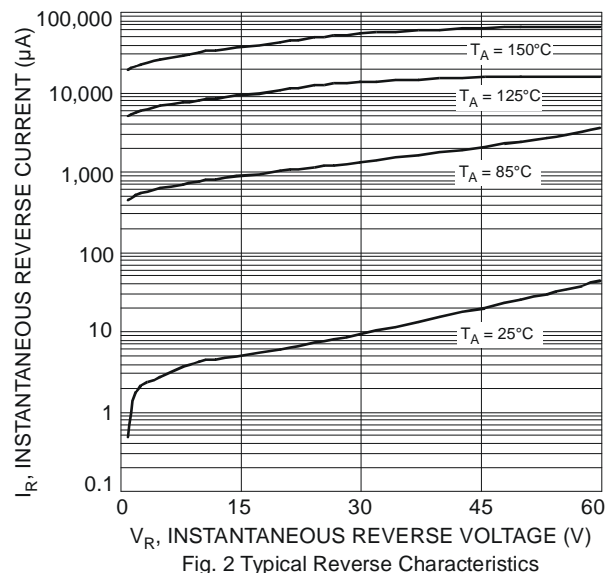
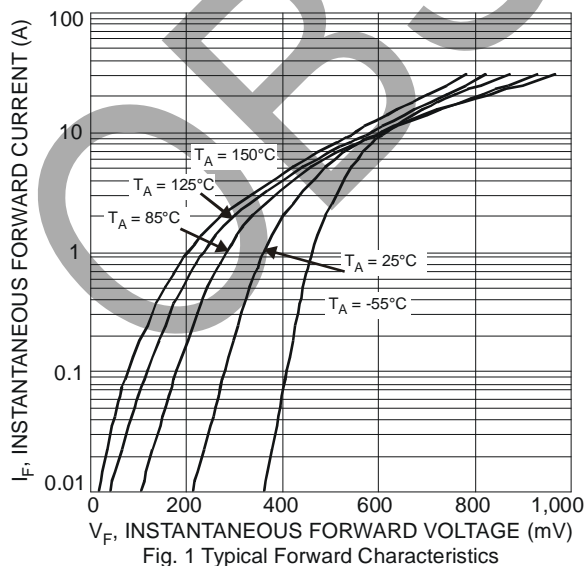
Thermal Characteristics (Per Leg)

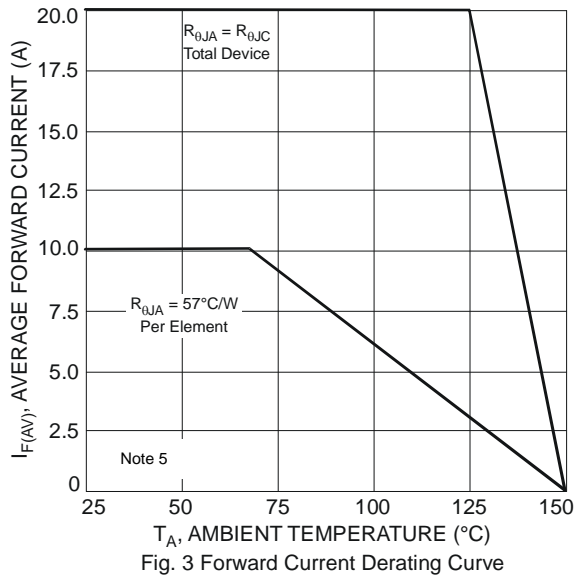
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Case (Note 5)	R _θ JC	3	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

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

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop	V _F	—	0.61 0.59	0.70 0.65	V	I _F = 10A, T _J = +25°C I _F = 10A, T _J = +125°C
Leakage Current (Note 4)	I _R	—	0.04 —	0.5 50	mA	V _R = 60V, T _J = +25°C V _R = 60V, T _J = +100°C

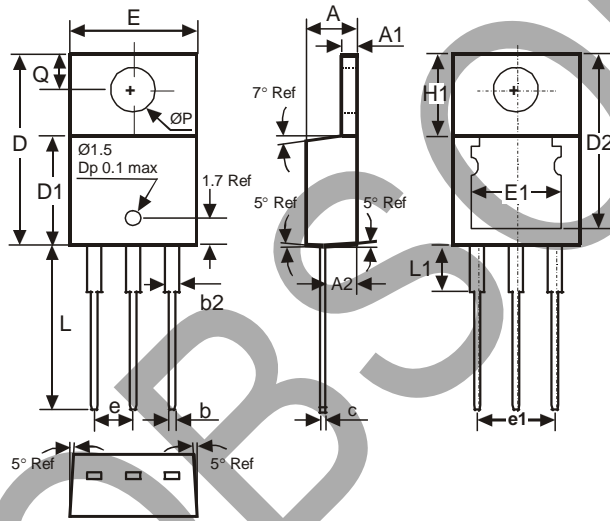
- Notes: 4. Short duration pulse test used to minimize self-heating effect.
5. Device mounted on heatsink (Black Aluminum, 45mm x 20mm x 12mm)





Package Outline Dimensions

Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for the latest version.



ITO-220S			
Dim	Min	Max	Typ
A	4.52	4.62	4.57
A1	1.17	1.39	-
A2	2.57	2.77	2.67
b	0.72	0.95	0.84
b2	1.15	1.34	1.26
c	0.356	0.61	-
D	14.22	16.51	15.00
D1	8.60	8.80	8.70
D2	13.68	14.08	-
e	2.49	2.59	2.54
e1	4.98	5.18	5.08
E	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	-
P	3.54	4.08	-
Q	2.54	3.42	-
All Dimensions in mm			

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