

Features

- Low Forward Voltage Drop
- Soft, Fast Switching Capability
- Schottky Barrier Chip
- ITO-220S Heat Sink Tab Electrically Isolated from Cathode
- UL Approval in Accordance with UL 1557, Reference No. E94661

Mechanical Data

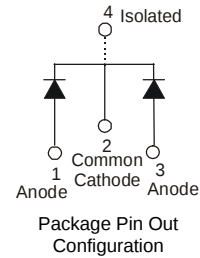
- Case: ITO-220S
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208 
- Weight: 1.335 grams (approximate)



Top View



Bottom View

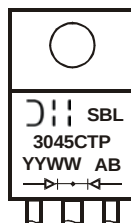


Ordering Information (Notes 1 & 2)

Part Number	Case	Packaging
SBL3045CTP	ITO-220S	50 pieces/tube
SBL3045CTP-G	ITO-220S	50 pieces/tube

- Notes:
1. For packaging details, go to our website at <http://www.diodes.com>.
 2. For Green Molding compound version part number, add "-G" suffix to part number. Example: SBL3045CTP-G.

Marking Information



SBL3045CTP = 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 - 53)

Maximum Ratings (Per Leg) @ $T_A = 25^\circ\text{C}$ 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_{RRM}	45	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_{RM}		
Average Rectified Output Current	(Per Leg)	15	A
	(Total)	30	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	230	A
Isolation Voltage From Terminal Heatsink $t = 1$ min.	V_{AC}	2000	V

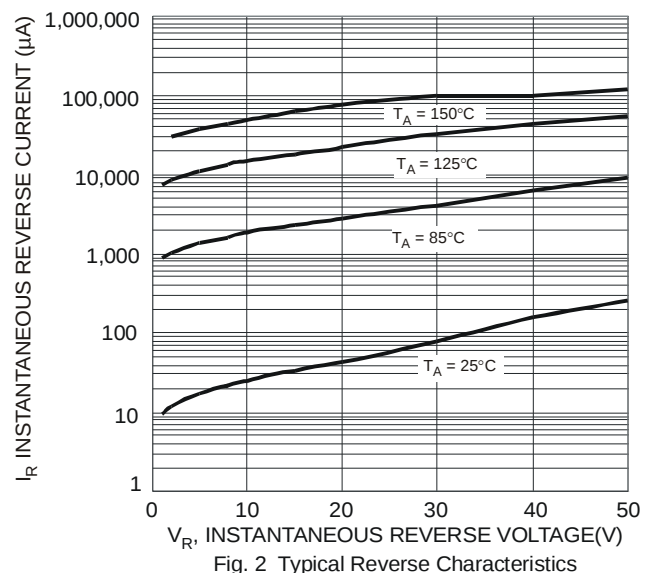
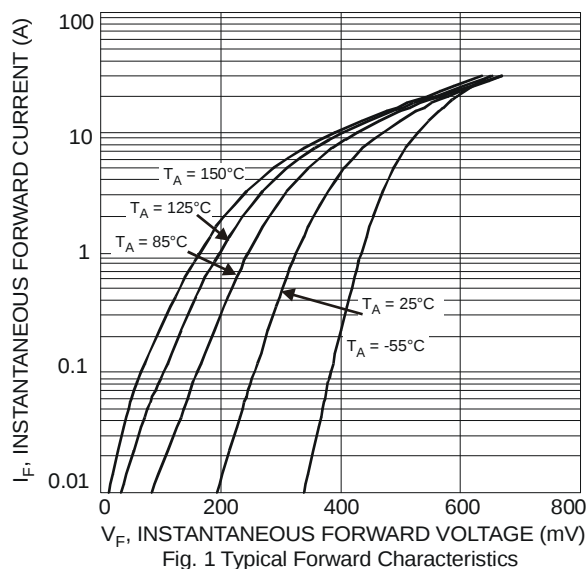
Thermal Characteristics (Per Leg)

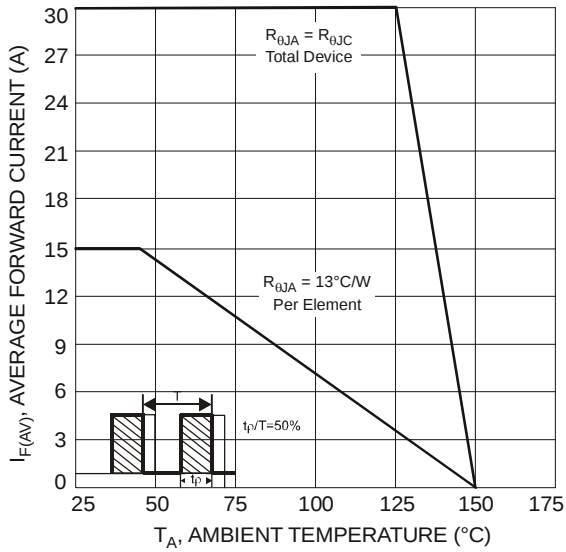
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	3	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150	$^\circ\text{C}$

Electrical Characteristics (Per Leg) @ $T_A = 25^\circ\text{C}$ unless otherwise specified

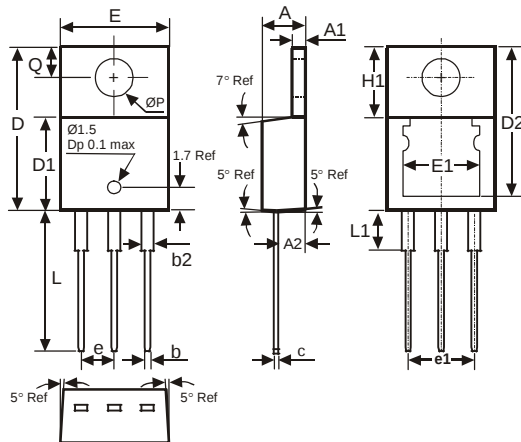
Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop	V_F	-	-	0.62	V	$I_F = 15\text{A}, T_J = 25^\circ\text{C}$
Leakage Current (Note 3)	I_R	-	0.20	1	mA	$V_R = 45\text{V}, T_J = 25^\circ\text{C}$
		-	-	75		$V_R = 45\text{V}, T_J = 100^\circ\text{C}$

Notes: 3. Short duration pulse test used to minimize self-heating effect.





Package Outline Dimensions



ITO-220S			
DIM.	MIN.	MAX.	TYP.
A	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	1.54	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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