

PART OBSOLETE – NO ALTERNATE PART

SBL1040CTP

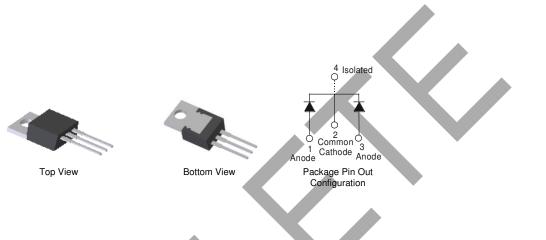
10A SCHOTTKY BARRIER RECTIFIER

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 (3)
- Weight: 1.335 grams ITO-220S (approximate)



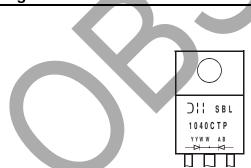
Ordering Information (Notes 1 & 2)

Part Number	Case	Packaging
SBL1040CTP	ITO-220S	50 pieces/tube
SBL1040CTP-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: SBL1040CTP-G.

Marking Information



SBL1040CTP = 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) @TA = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.

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EOT C	anacitan	nc in an	aorato	CUIRCONT	nv 20%	

Characteristic		Symbol	Value	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} Vrwm V _{RM}	40	V	
Average Rectified Output Current	(Per Leg) (Total)	Ι _Ο	5 10	A	
Non-Repetitive Peak Forward Surge Current Single Half Sine-Wave Superimposed on Rat		I _{FSM}	110	A	
Isolation Voltage From Terminal Heatsink t = 1 min.		V _{AC}	2000	V	

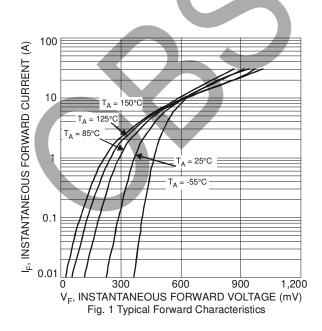
Thermal Characteristics (Per Leg)

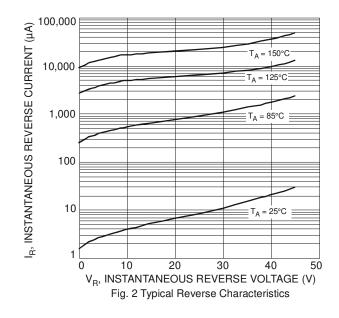
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Case	R _θ JC	3	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150	S⁰

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

							1
Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop		VF	-	-	0.56	V	I _F = 5A, T _J = 25⁰C
Leakage Current (Note 3)		-	-	-	0.5	m۸	$V_R = 40V, T_J = 25^{\circ}C$
Leakage Current (Note 3)		IR	-	-	50	mA	$V_R = 40V, T_J = 100^{\circ}C$

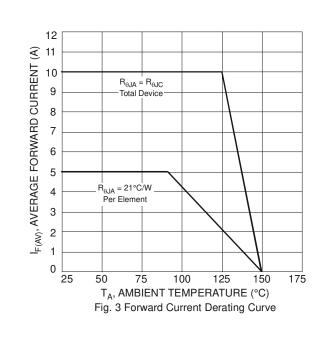
Notes: 3. Short duration pulse test used to minimize self-heating effect.



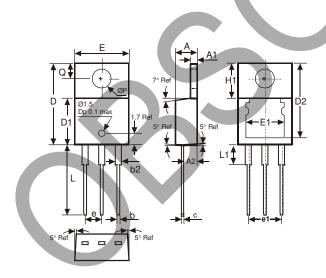




OBSOLETE - PART DISCONTINUED



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	1.54	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			
Е	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	All Dimensions in mm					



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