

PART OBSOLETE - NOT EXACT ALTERNATE PART USE MBR10100 of other available packages.

MBR10100CTP

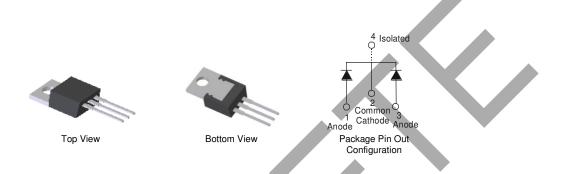
10A SCHOTTKY BARRIER RECTIFIER

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. F94661

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 (approximate)

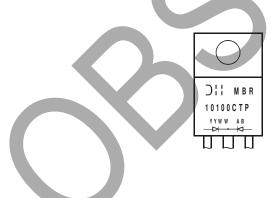


Ordering Information (Notes 1 & 2)

Part Number	Case	Packaging
MBR10100CTP	ITO-220S	50 pieces/tube
MBR10100CTP-G	ITO-220\$	50 pieces/tube

- 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: MBR10100CTP-G.

Marking Information



MBR10100CTP = 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. For capacitance load, derate current by 20%.

Characteristic		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _{RM}	100	V
Average Rectified Output Current	(Per Leg) (Total)	lo	5 10	A
Non-Repetitive Peak Forward Surge Curren Single Half Sine-Wave Superimposed on Ra		I _{FSM}	100	А
Isolation Voltage From Terminal Heatsink t = 1 min.		V _{AC}	2000	V

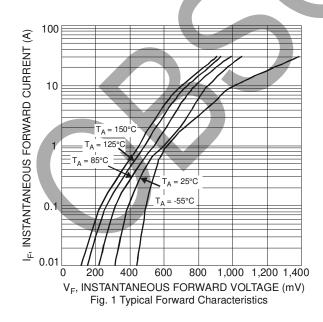
Thermal Characteristics (Per Leg)

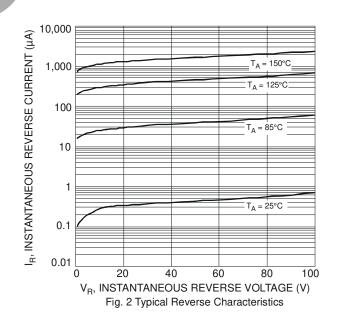
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Case	$R_{ hetaJC}$	3	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	ōC

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

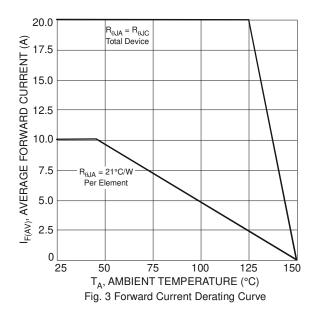
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltago Drop	V	-	0.79	0.85	V	$I_F = 5A, T_J = 25^{\circ}C$
Forward Voltage Drop	VF	- 0.65 0.75	٧	I _F = 5A, T _J = 125 ^o C		
Leakage Current (Note 3)		-	-	0.1	ı ma	V _R = 100V, T _J = 25 ^o C
Leanage Current (Note 3)	IR	-	-	15		V _R = 100V, T _J = 125 ^o C

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

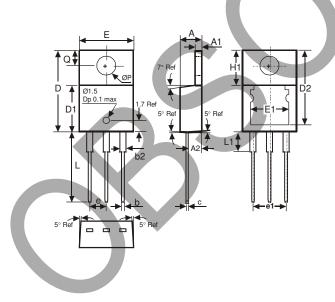








Package Outline Dimensions



ITO-220S						
DIM.	MIN.	MAX.	TYP.			
Α	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	1.54	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	1			
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	1			
H1	5.85	6.85	_			
L	13.30	13.90	13.60			
L1	_	4.00	_			
Р	3.54	4.08	_			
Q	2.54	3.42	_			
All Dimensions in mm						



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