# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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#### PART OBSOLETE – NO ALTERNATE PART

MBR3060CTP

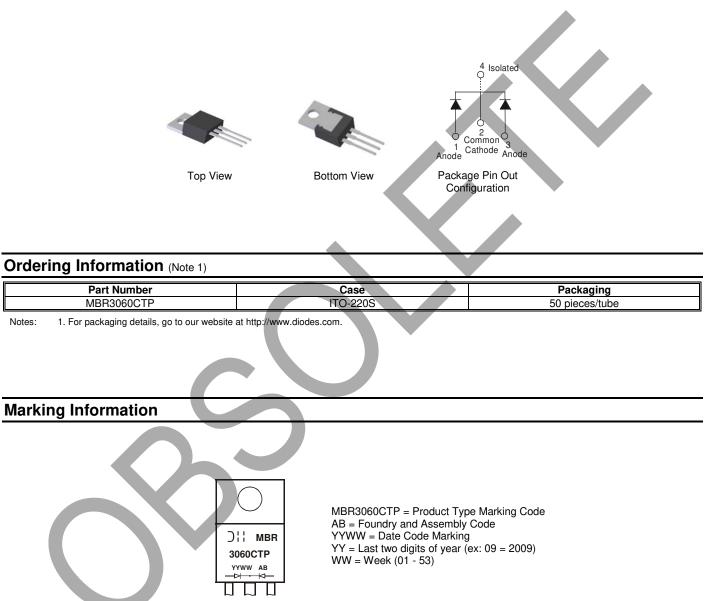
#### **30A SCHOTTKY BARRIER RECTIFIER**

#### 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 <sup>(2)</sup>
- Weight: 1.335 grams (approximate)





#### Maximum Ratings (Per Leg) @T<sub>A</sub> = 25°C unless otherwise specified

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

Foi	Ca	apac	itance	load.	derate	current	by	20%.	

Characteristic	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>RM</sub>	60	V	
Average Rectified Output Current (Per Leg) (Total)	lo	15 30	A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	250	A	
Isolation Voltage From terminal to heatsink t = 1min.	V <sub>AC</sub>	2000	V	

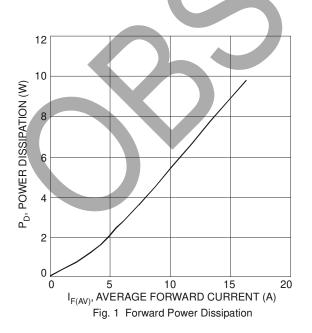
## **Thermal Characteristics (Per Leg)**

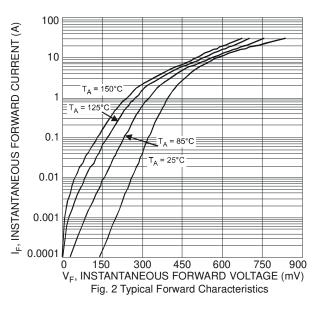
			•
Characteristic	Symbol	Value	Unit
Maximum Thermal Resistance, Junction to Case	$R_{ extsf{ heta}JC}$	3	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +175	°C

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

Characteristic			Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop		VF	-	0.67 0.60	0.75 0.67	V	I <sub>F</sub> = 15A, T <sub>J</sub> = 25⁰C I <sub>F</sub> = 15A, T <sub>J</sub> = 125⁰C
Leakage Current (Note 2)		IR	-	8 6	100 20	·	$V_R = 60V, T_J = 25^{\circ}C$ $V_R = 60V, T_J = 125^{\circ}C$

Notes: 2. Short duration pulse test used to minimize self-heating effect. 3. Device mounted on Black Aluminum Heatsink, 45mm \* 20mm \* 12mm.

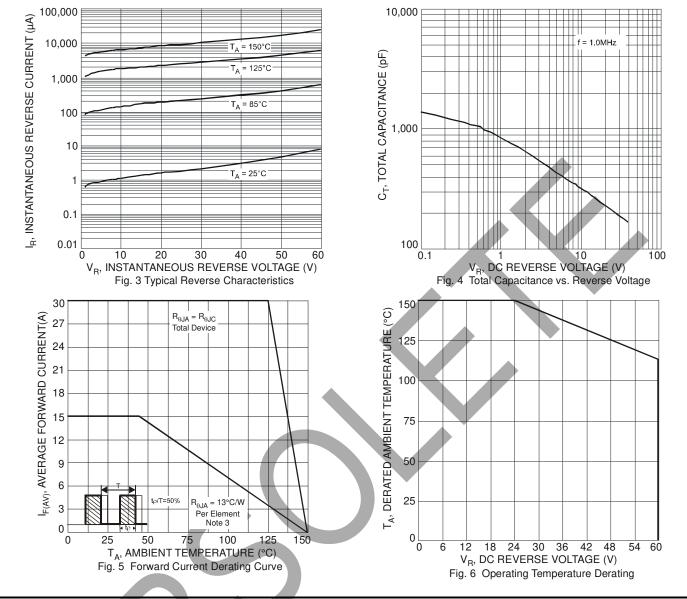




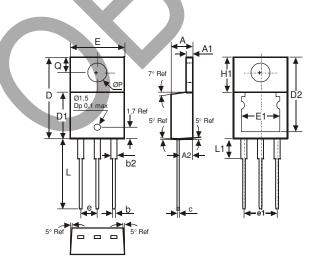


**OLETE - PART DISCONTINUED** 

### MBR3060CTP



# 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			
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	_	6.35	_			
Ρ	3.54	4.08	-			
Q	2.54	3.42	-			
All Dimensions in mm						



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