

MBR10150CTP

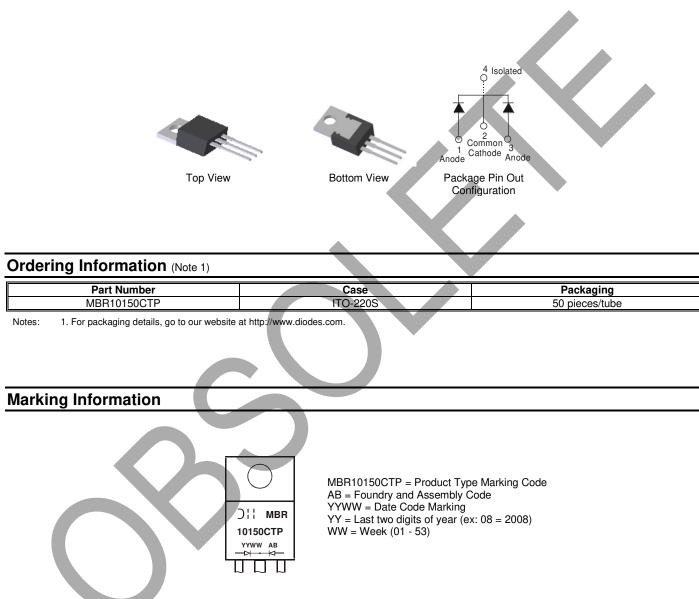
10A SCHOTTKY BARRIER RECTIFIER

Features

- Low Forward Voltage Drop
- Soft, Fast Switching Capability
- Schottly 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 ⁽²⁾
- Weight: 1.335 grams (approximate)





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

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

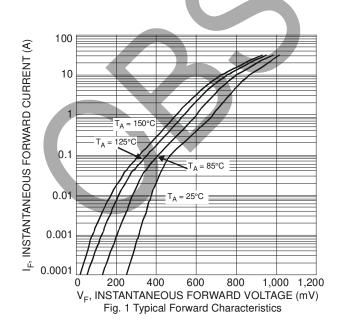
Characteristic Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Symbol	Value	Unit V	
		V _{RRM} V _{RWM} V _{RM}	150		
Average Rectified Output Current	(Per Leg) (Total)	I _O	5 10	A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	105	A	
Isolation Voltage From Terminal Heatsink t = 1 min.		V _{AC}	2000	V	

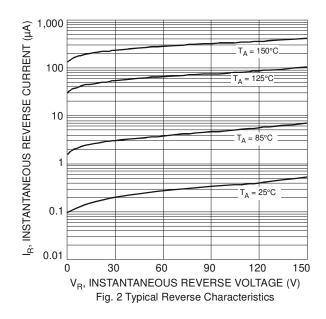
Thermal Characteristics (Per Leg)			
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Case	R ₀ JC	3	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	O°

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

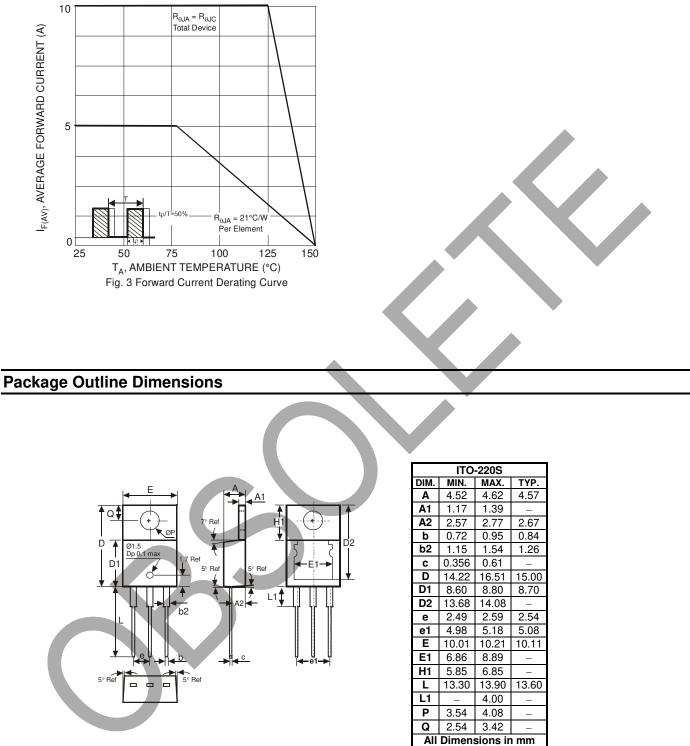
Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop		VF	-	-	0.91	V	I _F = 5A, T _J = 25⁰C
Forward Vollage Drop			-	-	0.75		I _F = 5A, T _J = 125⁰C
Leakage Current (Note 2)		I _R		-	0.05	mA	V _R = 150V, T _J = 25⁰C
			-	-	20		V _R = 150V, T _J = 125⁰C

Notes: 2. Short duration pulse test used to minimize self-heating effect.











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