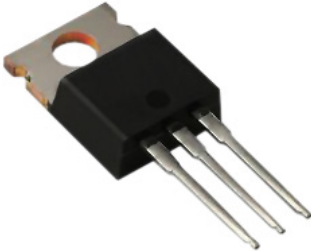


RoHS
Compliant



Features:

- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data:

Case	: ITO-220AB molded plastic
Polarity	: As marked on the body
Weight	: 0.055 ounces, 1.5615 grams
Mounting Position	: Any
Terminals	: solder plated, solderable per MIL-STD-750, method 2026
Reverse Voltage	: 200 Volts
Forward Current	: 20 Amperes

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Max. RMS Voltage	V_{RMS}	140	
Max. DC Blocking Voltage	V_{DC}	200	
Max. Average Forward Rectified Current (See Fig.1)	$I_{(AV)}$	20	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	150	
Peak Forward Voltage (Note1) $I_F = 10A @ T_A = 25^\circ C$ $I_F = 10A @ T_A = 125^\circ C$ $I_F = 20A @ T_A = 25^\circ C$ $I_F = 20A @ T_A = 25^\circ C$	V_F	0.95 0.85 1.05 0.95	V
Max. DC Reverse Current at Rated DC Blocking Voltage at $T_J = 25^\circ C$ $T_J = 125^\circ C$	I_R	0.05 20	mA
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	2	°C/W
Operating Temperature Range	T_J	-65 to +175	°C
Storage Temperature Range	T_{STG}		

Notes:

1. Both Bonding and Chip structure are available.
2. The typical data above is for reference only

Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

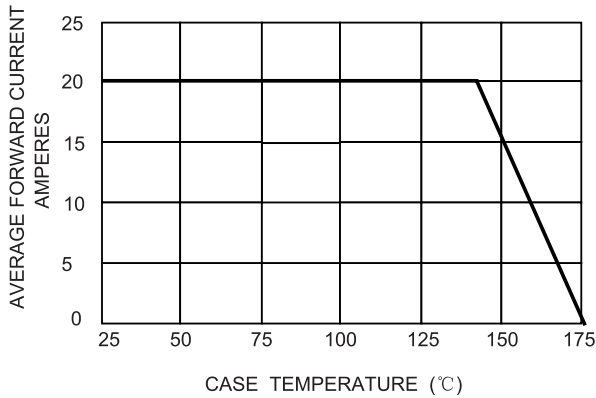


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

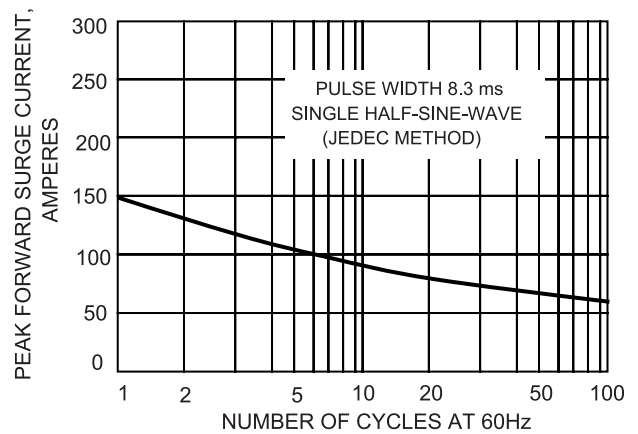


FIG.3-TYPICAL REVER CHARACTERISTICS

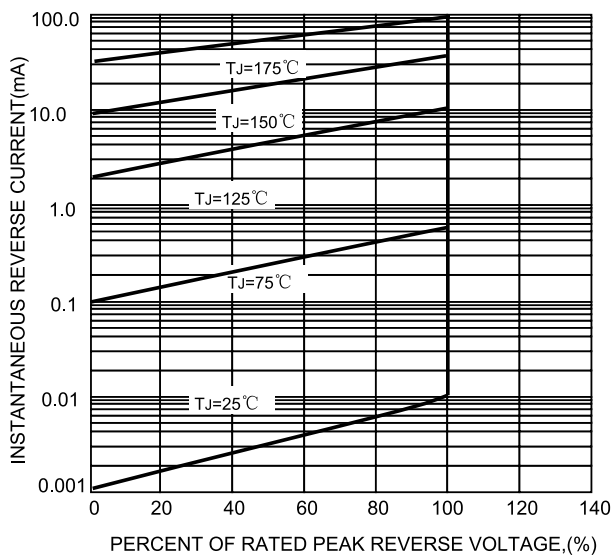
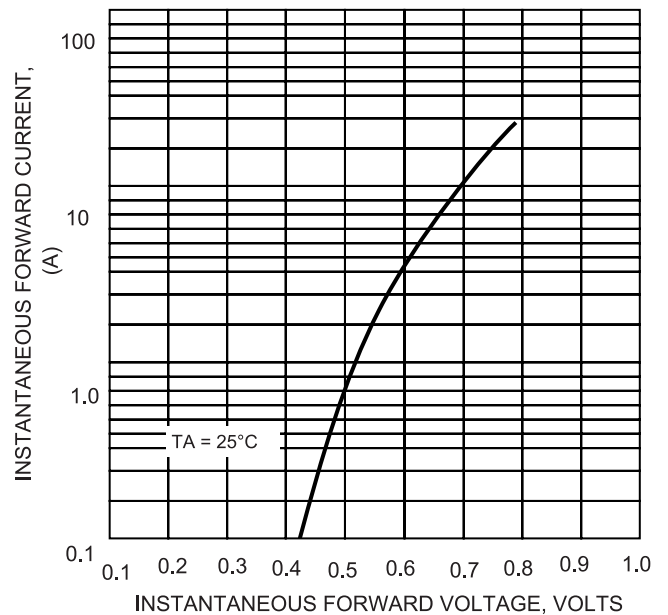
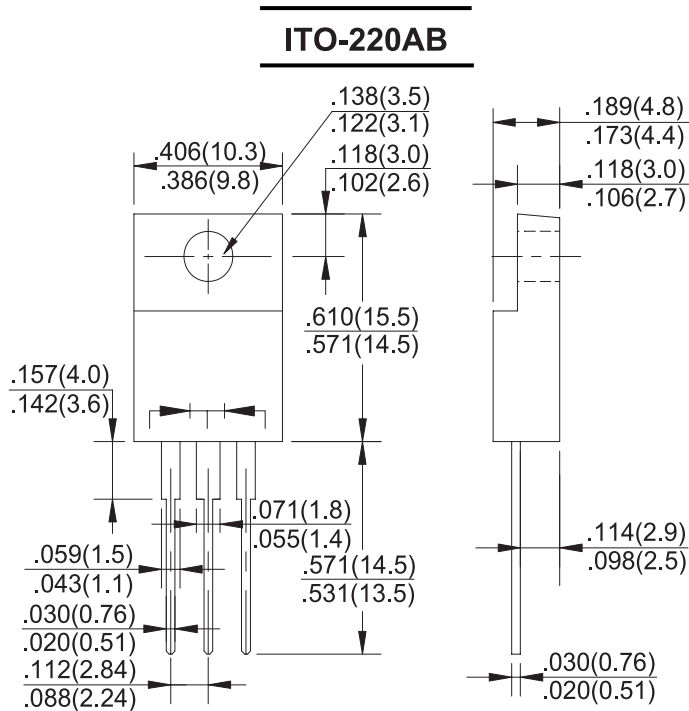


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Barrier Rectifier	MBRF20200CT

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro