

Features:

- Fred chip construction
- Ultra-fast switching, high efficiency
- Low forward voltage drop
- High surge current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

Mechanical Data:

Case	: TO-220AC Type, molded plastic
Terminals	: Pure tin plated, lead free solderable Per MIL-STD-202, method 208
Polarity	: As marked on the body
Weight	: 1.9 grams (approx.)
Mounting Position	: Any
Reverse Voltage	: 200 Volts
Forward Current	: 15 Amperes

Typical Applications

For use in high frequency rectifier of switching mode power supplies, Freewheeling Diode, DC/DC converters or polarity protection application

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	Vrrm	200	
Max. RMS Voltage	VRMS	140	V
Max. DC Blocking Voltage	VDC	200	1
Max. Average Forward Rectified Current	lf(AV)	15	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	Іғѕм	200	A
Max. Forward Voltage at 15A per leg	VF	1	V
Max. Reverse Recovery Time (Note1)	Trr	35	nS
Max. DC Reverse Current at $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 100^{\circ}C$	IR	10 250	μA
Typical Thermal Resistance, Junction to Ambient	Reja	70	°C/W
Typical Thermal Resistance, Junction to Case	Rejc	3	
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Tstg	-55 to +150	°C

Notes:

- 1. Measured With IF = 0.5A, IR = 1.0A, IRR = 0.25A
- 2. The typical data above is for reference only

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Schottky Barrier Rectifier multicomp

FIG.1-FORWARD CURRENT DERATING (w), AVERAGE FORWARD RECTIFIED CURRENT (A) 15 12 9 6 3 Resistive or Inductive Load 0 0 15 30 45 60 75 90 105 120 135 150 T_c, CASE TEMPERATURE (°C)

Ratings and Characteristic Curves



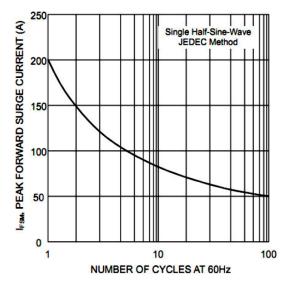


FIG.2-TYPICAL FORWARD CHARACTERISTICS

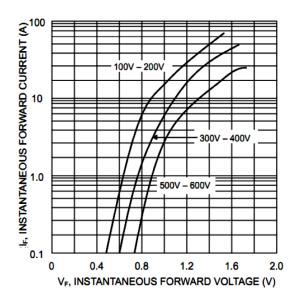
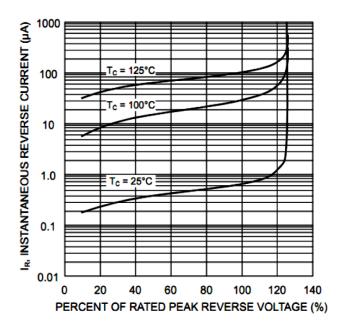


FIG.4-TYPICAL REVERSE CHARACTERISTICS

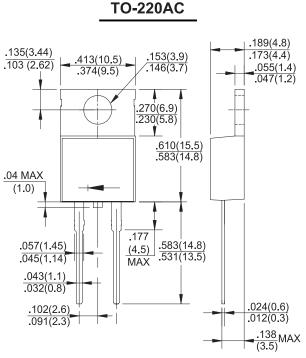


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Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Barrier Rectifier	MUR1520

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