Schottky Barrier Rectifier multicomp PRO



Features:

- Schottky barrier chip
- · Guard ring for over voltage protection
- · Low power loss, high efficiency
- Low reverse leakage current
- · High surge current capability
- Plastic material has UL flammability classification 94V-0

Mechanical Data:

Case : TO-220AB Type, molded plastic

Terminals : Pure tin plated, lead free solderable per MIL-STD-750, method 2026

Polarity : As marked on the body Weight : 2.1 grams (approx.)

Mounting Position : Any

Reverse Voltage : 45 to 200 Volts Forward Current : 20 Amperes

Typical Applications:

For use in low voltage, high frequency inverters mode power supplies, freewheeling diode and 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	MBR2045CT+	MBR20200CT+	Unit
Max. Repetitive Peak Reverse Voltage	Vrrm	45	200	
Max. RMS Voltage	VRMS	31.5	140	v
Max. DC Blocking Voltage	VDC	45	200	
Max. Average Forward	lf(AV)	20		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	İFSM	150		A
Max. Forward Voltage at 10A per leg	VF	0.7	0.92	V
Max. DC Reverse Current TA = 25°C Rated DC Blocking Voltage TA = 125°C	lr	0.15 15	0.1 7.5	mA
Typical Thermal Resistance, Junction to Case	Rejc	2.2		°C/W
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Тѕтс	-55 to +150		°C

Notes:

- 1. Mounted on 14mm × 14mm pad areas,1oz. FR4 P.C.B.
- 2. Free air, mounted on recommended copper pad area.
- 3. Pulse test:300us pulse width,1% duty cycle.
- 4. Pulse test: Pulse width ≤40ms
- 5. The typical data above is for reference only

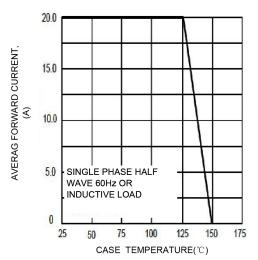
Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro



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Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE



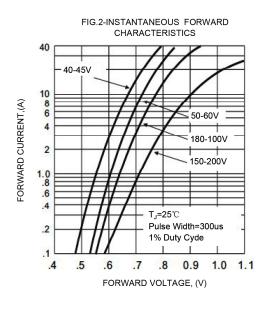


FIG. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

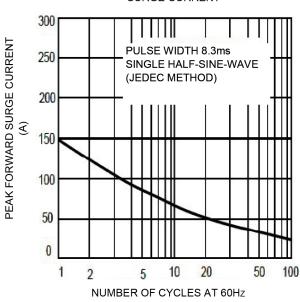
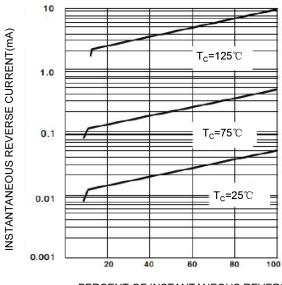


FIG.4-TYPICAL REVERSE CHARACTERISTICS



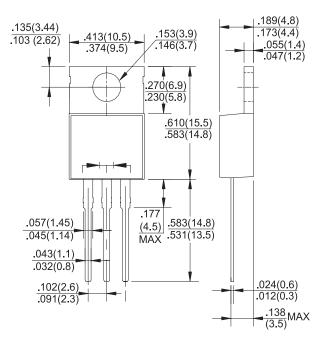
PERCENT OF INSTANTANEOUS REVERSE VOLTAGE,(%)

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Dimensions:

TO-220AB



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Sobottley Parrior Poetifiers	MBR2045CT+	
Schottky Barrier Rectifiers	MBR20200CT+	

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