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 : ITO-220AB Type, molded plastic

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

Polarity : As marked on the body Weight : 1.8 grams (approx.)

Mounting Position : Any Reverse Voltage : 45 Volts Forward Current : 30 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	Values	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	45	V
Max. RMS Voltage	VRMS	31.5	
Max. DC Blocking Voltage	VDC	45	
Max. Average Forward Rectified Current	lf(AV)	30	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	Ігѕм	200	A
Max. Forward Voltage at 15A per leg	VF	0.7	V
Max. DC Reverse Current TA = 25°C Rated DC Blocking Voltage TA = 125°C	lR	0.1 20	mA
Typical Thermal Resistance, Junction to Case	Rejc	3.5	°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

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Ratings and Characteristic Curves

Fig 1. Forward Current Derating Curve

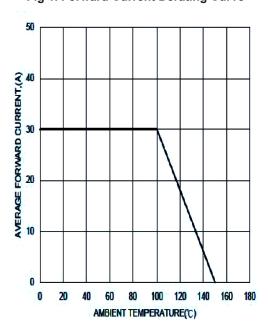


Fig 3. Typical Reverse Characteristics

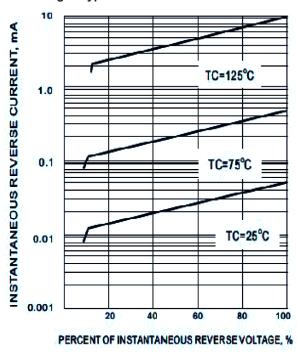
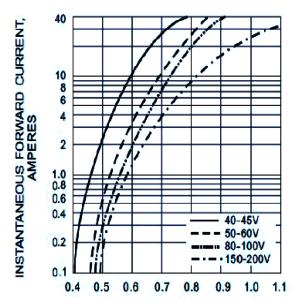
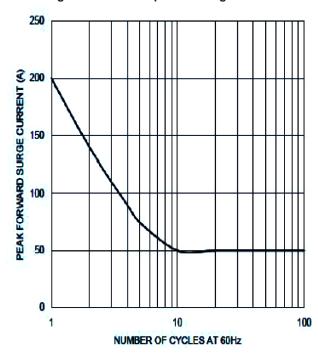


Fig 2. Typical Instantaneous Forward Characteristic



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig 4. Max. Non-Repetitive Surge Current



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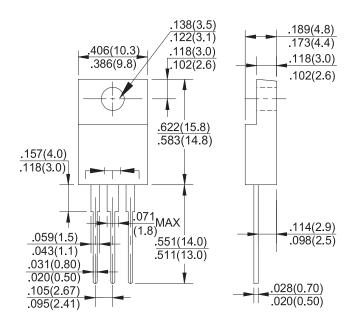


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Dimensions:

ITO-220AB



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Barrier Rectifier	MBRF3045CT

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