Schottky Barrier Rectifier multicomp





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 : 0.08 ounces, 2.24 grams

Mounting Position : Any

Reverse Voltage : 40 to 45 Volts **Forward Current** : 30 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	MBR3040CT	MBR3045CT	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	40	45	
Max. RMS Voltage	VRMS	28	31.5	V
Max. DC Blocking Voltage	VDC	40	45	
Max. Average Forward	lF(AV)	30		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	200		A
Max. Forward Voltage at 15A per leg	VF	0.7		V
Max. DC Reverse Current T _J = 25°C Rated DC Blocking Voltage T _J = 125°C	lr	0.1 20		mA
Typical Thermal Resistance, Junction to Case	Rejc	1.5		°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

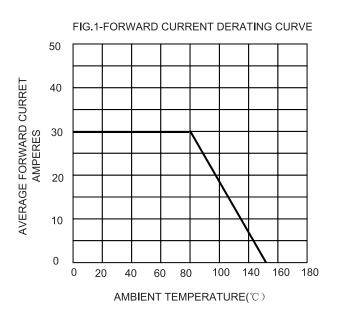
www.element14.com www.farnell.com www.newark.com

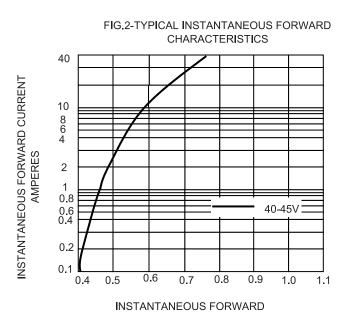


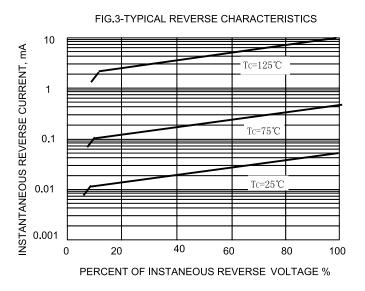
Schottky Barrier Rectifier multicomp

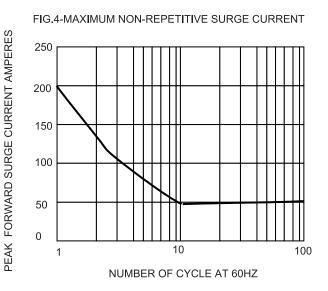


Ratings and Characteristic Curves







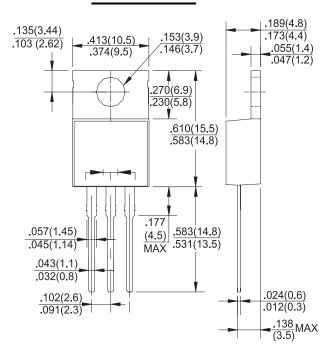


Schottky Barrier Rectifier multicomp



Dimensions:

TO-220AB



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Schottky Barrier Rectifiers	MBR3040CT	
	MBR3045CT	

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell 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 is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com www.farnell.com www.newark.com

