

# TATA SHEET

## **SCHOTTKY BARRIER RECTIFIERS**

**VOLTAGE** 45 Volts

**CURRENT** 

20.0 Amperes

## **TO-220AB**

### Unit:mm

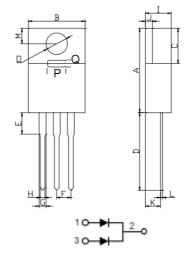
#### **FEATURES**

- Metal of silicon rectifier, majority carrier conducton
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0

### MECHANICAL DATA

• Case : TO-220AB molded plastic • Polarity : As marked on the body

• Mounting position : Any



DIM	MILL IMETERS		
	MIN	MAX	
A	14.68	15. 32	
В	9. 78	10.42	
С	6.01	6. 52	
D	13.06	14.62	
Е	3. 57	4.07	
F	2.42	2.66	
G	1. 12	1. 35	
Н	0.72	0. 96	
I	4. 22	4. 98	
J	1. 14	1. 36	
K	2. 20	2. 97	
L	0.33	0.55	
М	2.48	2. 98	
0	3. 70	3. 90	
Р	3. 50	3. 70	
Q	1. 20	1. 40	
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## In compliance with EU RoHs 2002/95/EC directives

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at  $25\,\mathrm{^\circ Cambient}$  temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	MBR2045CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	45	V
Maximum RMS Voltage	VRMS	31. 5	V
Maximum DC Blocking Voltage	Vcc	45	V
Maximum Average Forward Rectified Current	I (AV)	20	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	IFSM	200	A
Maximum Forward Voltage at 8A DC (Note 1)	VF	0. 60	V
Maximum DC Reverse Current	IR	0. 5 50	MA
Typical Junction Capacitance	СЈ	350	pF
Typical Thermal Resistance	RO J C	2. 5	°C/W
Operating Temperature Range	ТJ	-55to+150	$^{\circ}$
Storage Temperature Range	TSTG	-55to+150	${\mathbb C}$



