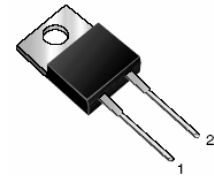


10A Schottky Barrier Rectifier

Features

- Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Guarding for over voltage protection
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed:
250° C/10 seconds, 0.25" (6.35mm) from case



TO-220AC

Mechanical Data

Case:	JEDEC TO-220AC, molded plastic body
Terminals:	Plated leads, solderable per MIL-STD-750, Method 2026
Polarity	As marked
Mounting Position:	Any
Mounting Torque:	10 in-lbs maximum
Weight:	0.08 ounce, 2.24 grams

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	MBR1035	MBR1045	MBR1050	MBR1060	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	35	45	50	60	V	
VDC	Maximum DC Blocking Voltage	35	45	50	60	V	
IF(AV)	Maximum Average Forward Rectified Current	10				A	See Fig.1
IFSM	Peak Forward Surge Current per leg	150				A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
TJ	Operating Junction Temperature Range	-65 to +150				° C	
TSTG	Storage Temperature Range	-65 to +150				° C	

10A Schottky Barrier Rectifier

MBR1035 - MBR1060

Electrical Characteristics ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	MBR1035	MBR1045	MBR1050	MBR1060	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage per leg (Note 1)	-		0.80		V	IF=10A Tc=25 °C
		0.57		0.70			IF=10A Tc=125 °C
I_R	Maximum Instantaneous Reverse Current at rated DC Blocking Voltage	0.10				mA	Tc=25 °C
		15					Tc=125 °C
$R_{\theta-JC}$	Maximum Thermal Resistance from Junction to Case	2.0				°C/W	

Note 1: Pulse test: 300 μs pulse width, 1 % duty cycle

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

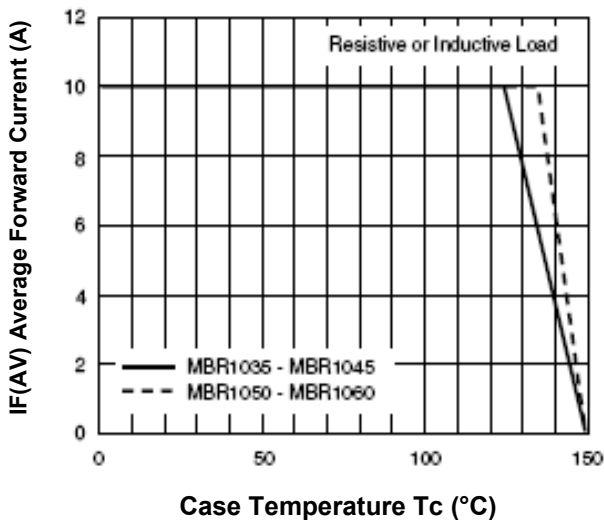


Fig.2- Max. Non-Repetitive Peak Forward Surge Current

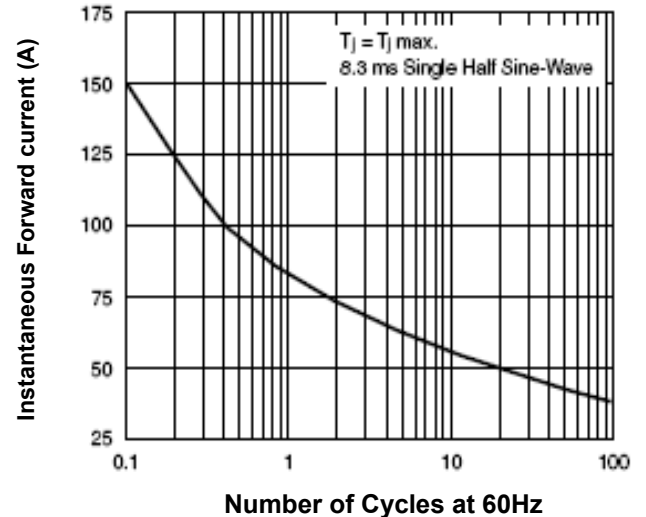


Fig.3- Typical Forward Characteristics

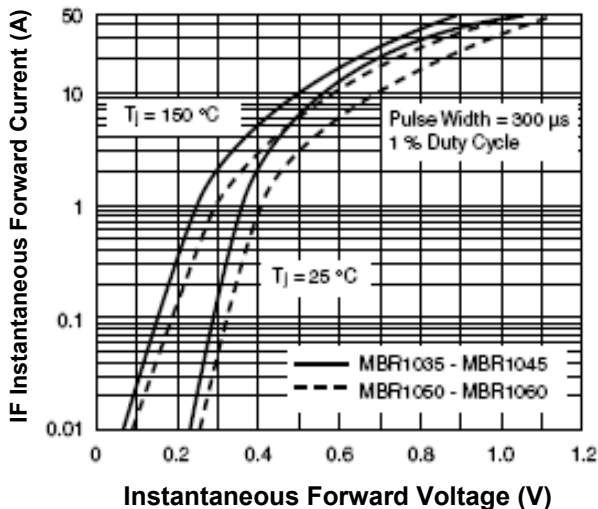
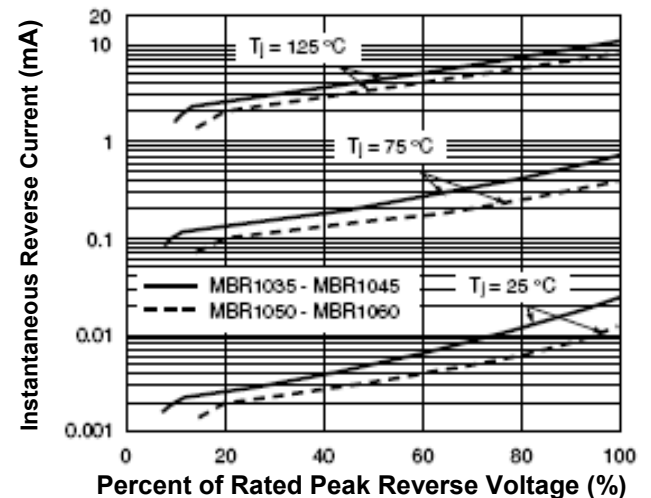


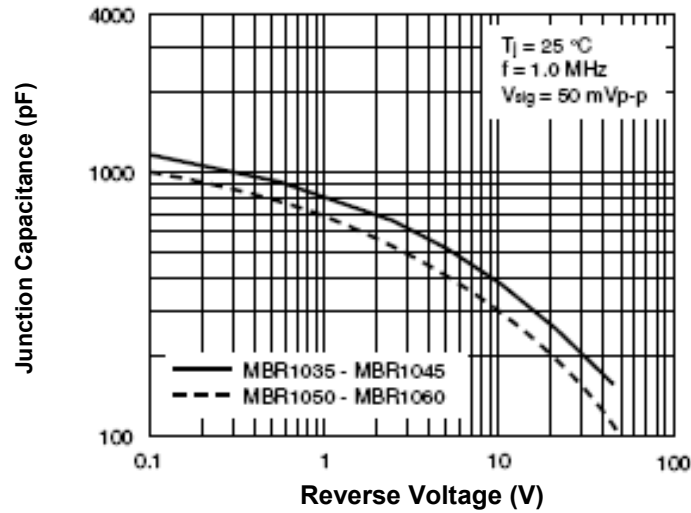
Fig.4- Typical Reverse Characteristics



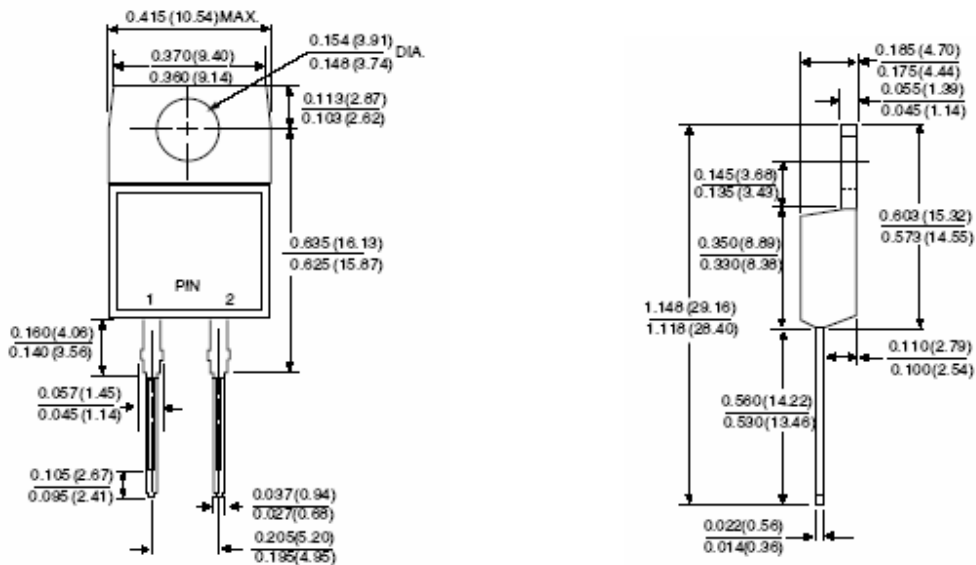
10A Schottky Barrier Rectifier

MBR1035 - MBR1060

Fig.5- Typical Junction Capacitance



Dimensions in inches (mm)



TO-220AC

TAITRON
components incorporated

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How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 247-2232 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

CROSS REGION PLAZA, 899 LINGLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931