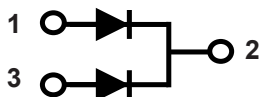
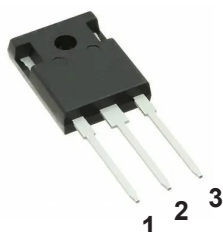


Schottky Barrier Rectifier

TO-247
MBR60100PT



Features

- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

Applications

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

Maximum ratings and electrical characteristics (T_J = 25°C unless otherwise noted)

Parameter			Symbol	Limit		Unit
Maximum repetitive peak reverse voltage			VRRM	100		V
Maximum average forward rectified current	per diode		IF(AV)	30		A
	total			60		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode			IFSM	350		A
Operating junction and storage temperature range			T _J , T _{STG}	-55 to +150		°C
Typical thermal resistance per leg			R _{θJC}	2		°C/W
Instantaneous forward voltage per diode			VF	TYP.	MAX.	V
	IF=3A	TJ=25°C		0.60	0.65	
	IF=3A	TJ=125°C		0.50	-	
	IF=30A	TJ=25°C		0.85	0.90	
	IF=30A	TJ=125°C		0.76	-	
Instantaneous reverse current per diode at rated reverse voltage		TJ=25°C	IR	1	20	uA
		TJ=125°C		1	-	mA

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

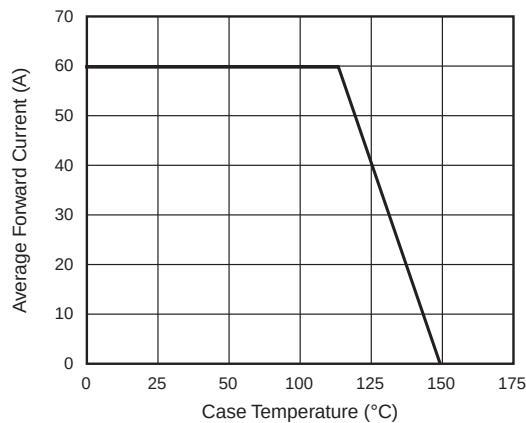


Fig. 1 - Forward Derating Curve

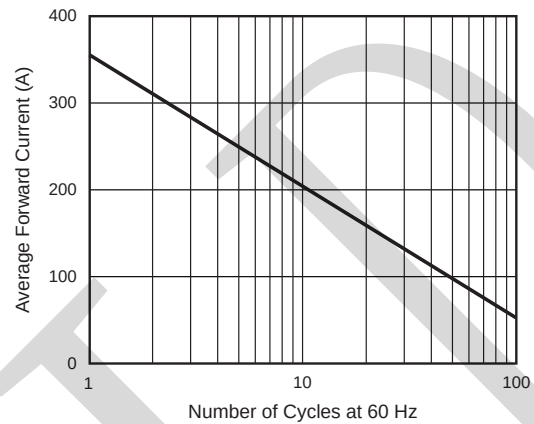


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

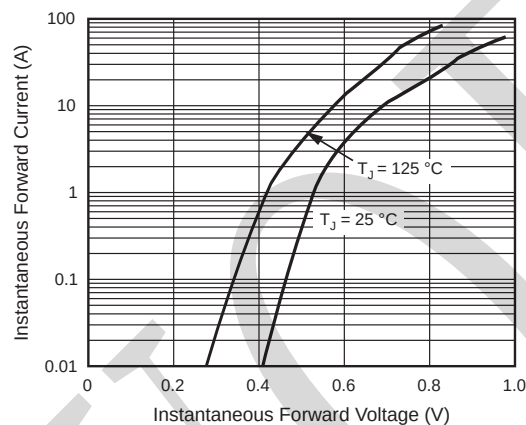


Fig. 3 - Typical Instantaneous Forward Characteristics Per Diode

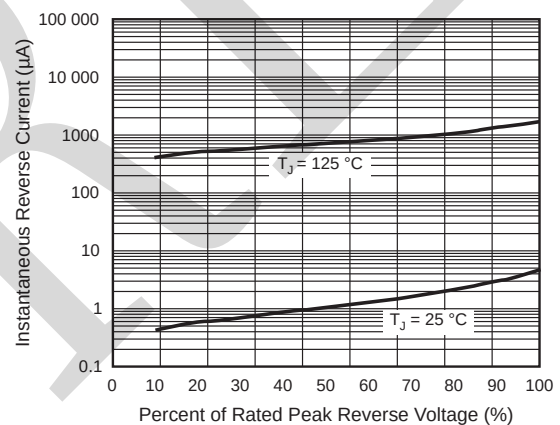
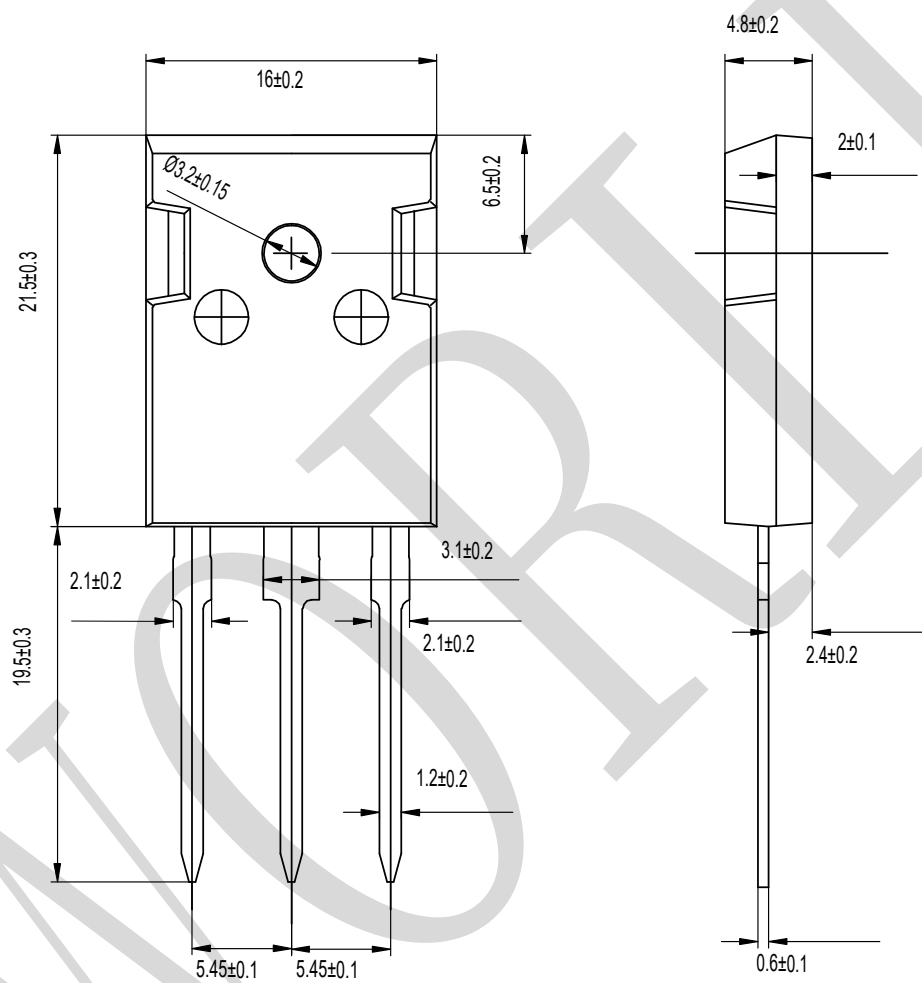


Fig. 4 - Typical Reverse Characteristics Per Diode

PACKAGE OUTLINE DIMENSIONS

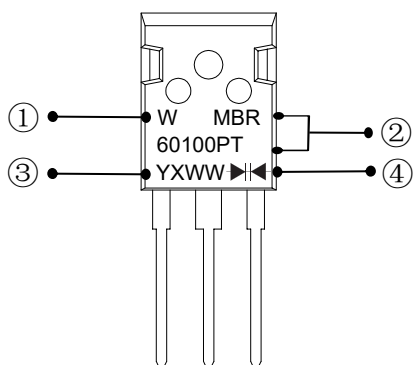
Note: unit In(mm)

TO-247



Dimensions in millimeters

Marking Information



- ①W : Company's trademark
- ②Product model : MBR60100PT

③PDC information:

Y X WW
 WW:Week code(01 to 53)
 X:Internal identification code
 Y:Year code(ex:0=2020)

- ④▶▶ Double wafer

Packaging Information