

Description

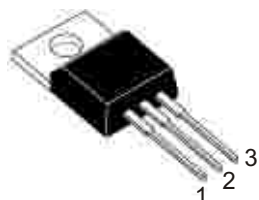
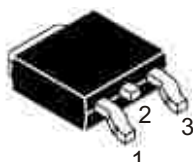
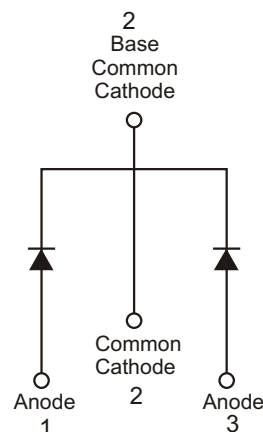
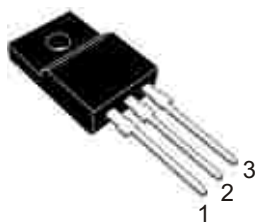
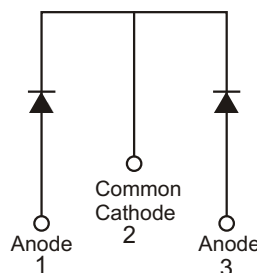
Dual center tap schottky rectifier designed for high frequency Switched Mode Power Supplies.

Major Ratings and Characteristics

Characteristics	Values	Unit
$I_{F(AV)}$ Rectangular waveform	2 X 15	A
V_{RRM}	100	V
V_F @15 Apk, $T_C = 125^\circ\text{C}$ (per leg)	0.64	V
T_J range	-45 ~ +150	$^\circ\text{C}$

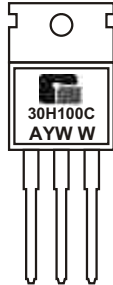
FEATURES

- ◆ High junction temperature capability
- ◆ Good trade off between leakage current and forward voltage drop
- ◆ Low leakage current

TO-220AB**TO-263-2(D²PAK)****TO-3P****TO-220FPAB****TO-3PF**

◆ MARKING INFORMATION

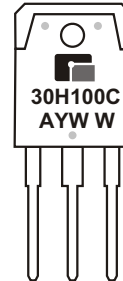
TO - 220AB



TO-263-2 (D²PAK)



TO - 3P



A : Assembly Location
Y : Year
WW : Weekly

◆ ORDERING INFORMATION

Ordering Number	Package	Shipping
GMR30H100CTA3T	TO - 263-2	50 Unit/ Tube
GMR30H100CTA3R	TO - 263-2	800 Unit/ Tape & Reel
GMR30H100CTB3T	TO - 220AB	50 Unit/ Tube
GMR30H100CTBF3T	TO - 220FPAB	50 Unit/ Tube
GMR30H100CTP3T	TO - 3P	30 Unit/ Tube
GMR30H100CTPF3T	TO - 3PF	30 Unit/ Tube

* For detail Ordering Number identification, please see last page.

◆ ABSOLUTE RATINGS (T_C = 25°C)

Symbol	Parameter		Value	Unit
V _{RRM}	Repetitive peak reverse voltage		100	V
I _{F(AV)}	Maximum average forward rectified current	per diode per device	15 30	A
I _{FSM}	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per leg.(Non-Repetitive)		275	A
T _j , T _{stg}	Operating junction temperature and storage temperature		-45 to + 150	°C

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ **Thermal Characteristics** ($T_c = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	TO-220AB	TO-220FPAB	TO-263-2	TO-3P	TO-3PF	Unit
Typical thermal resistance per leg	$R_{\Theta JC}$	1.7	3.5	1.7	1.0	1.2	$^\circ\text{C/W}$

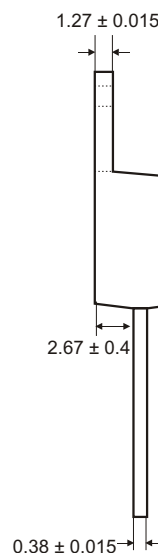
◆ **Electrical Characteristics** ($T_c = 25^\circ\text{C}$ unless otherwise noted)

Parameter		Symbol	Value	Unit
Maximum instantaneous forward voltage per leg (Note 1)	$I_F = 15\text{A}, T_C = 25^\circ\text{C}$	V_F	0.78	V
	$I_F = 15\text{A}, T_C = 125^\circ\text{C}$		0.64	
	$I_F = 30\text{A}, T_C = 25^\circ\text{C}$		-	
	$I_F = 30\text{A}, T_C = 125^\circ\text{C}$		-	
Maximum reverse current per leg at working peak reverse voltage (Note 1)	$T_J = 25^\circ\text{C}$	I_R	10	μA
	$T_J = 125^\circ\text{C}$		10	mA

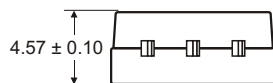
Note 1: Pulse Test: Pulse Width= 300 μs , Duty Cycle $\leq 2.0\%$

Technical drawing of a mechanical part with the following dimensions:

- Overall width: 10.16 ± 0.2
- Top hole diameter: $\varnothing 3.84$
- Distance from top edge to center of top hole: 6.24 ± 0.20
- Distance from top hole center to bottom of top section: 3.50
- Height of top section: 9.00 ± 0.10
- Width of rectangular cutout: 10.16 ± 0.10
- Distance from bottom of top section to start of vertical slots: 3.50 ± 0.20
- Overall height: 13.00 ± 0.5
- Slot widths: 1.27 , 0.81
- Bottom slot width: 2.54
- Overall bottom width: 5.08

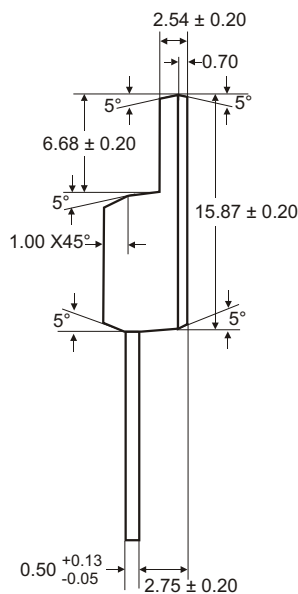


Unit: mm



Technical drawing of a mechanical part with dimensions:

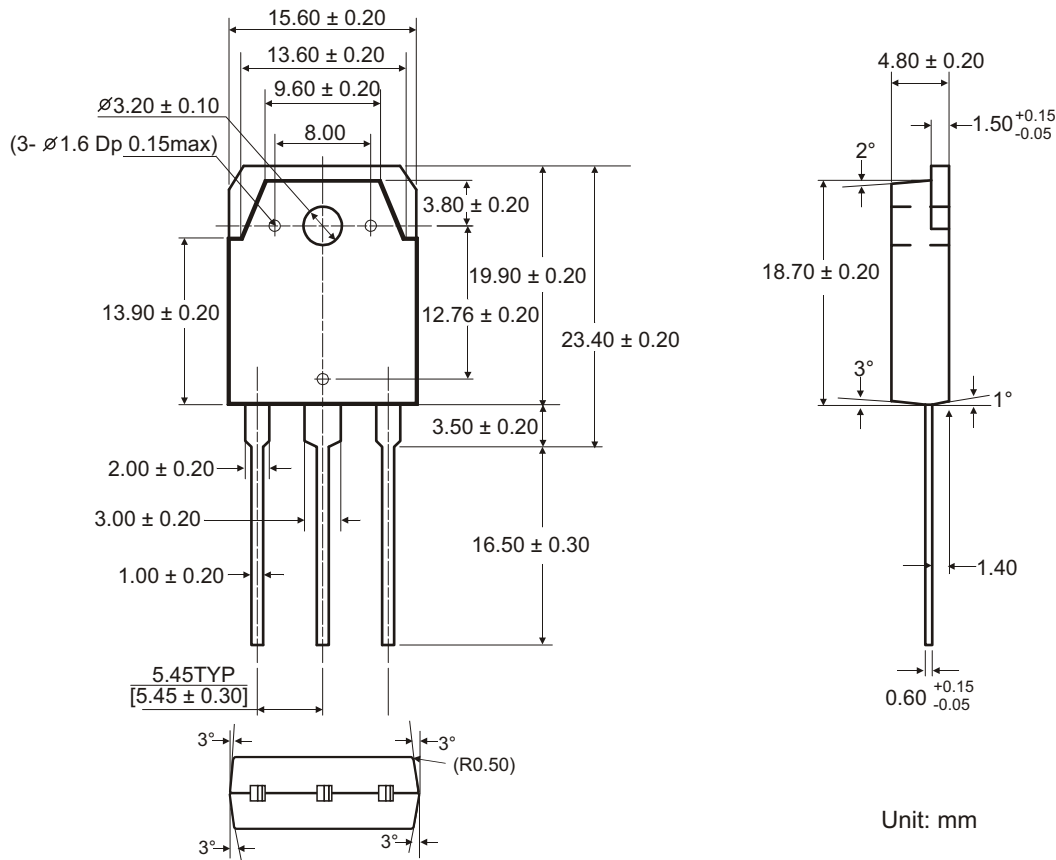
- Overall width: 10.16 ± 0.20
- Top hole diameter: $\varnothing 3.18 \pm 0.10$
- Top hole spacing: 7.00
- Top hole diameter (right): $\varnothing 1.50 \text{ Dp} 0.10$
- Top hole offset: 3.30 ± 0.10
- Top hole offset (right): 1.50
- Overall height: 15.87 ± 0.20
- Internal hole diameter: $(\varnothing 1.6 \text{ DP } 0.10)$
- Internal hole offset: 6.50
- Overall height (left): 15.80 ± 0.20
- Bottom hole diameter: 0.80 ± 0.10
- Bottom hole offset: 9.75 ± 0.30
- Bottom hole diameter (right): $\text{MAX } 1.47$
- Bottom hole angle: 30°
- Bottom hole offset (right): 0.35 ± 0.10
- Bottom hole spacing: 2.54 TYP (2.54 ± 0.20)



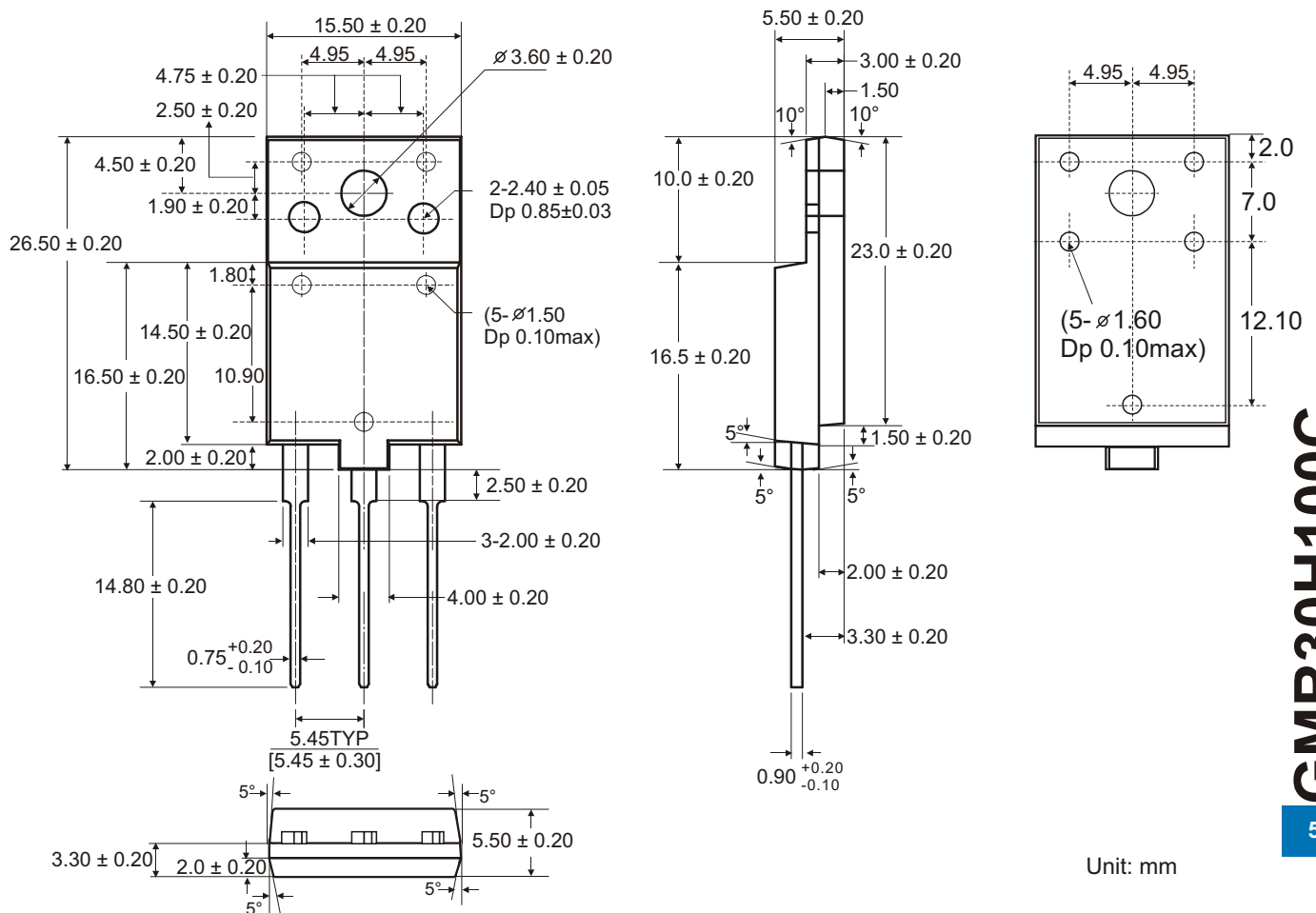
Unit: mm

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

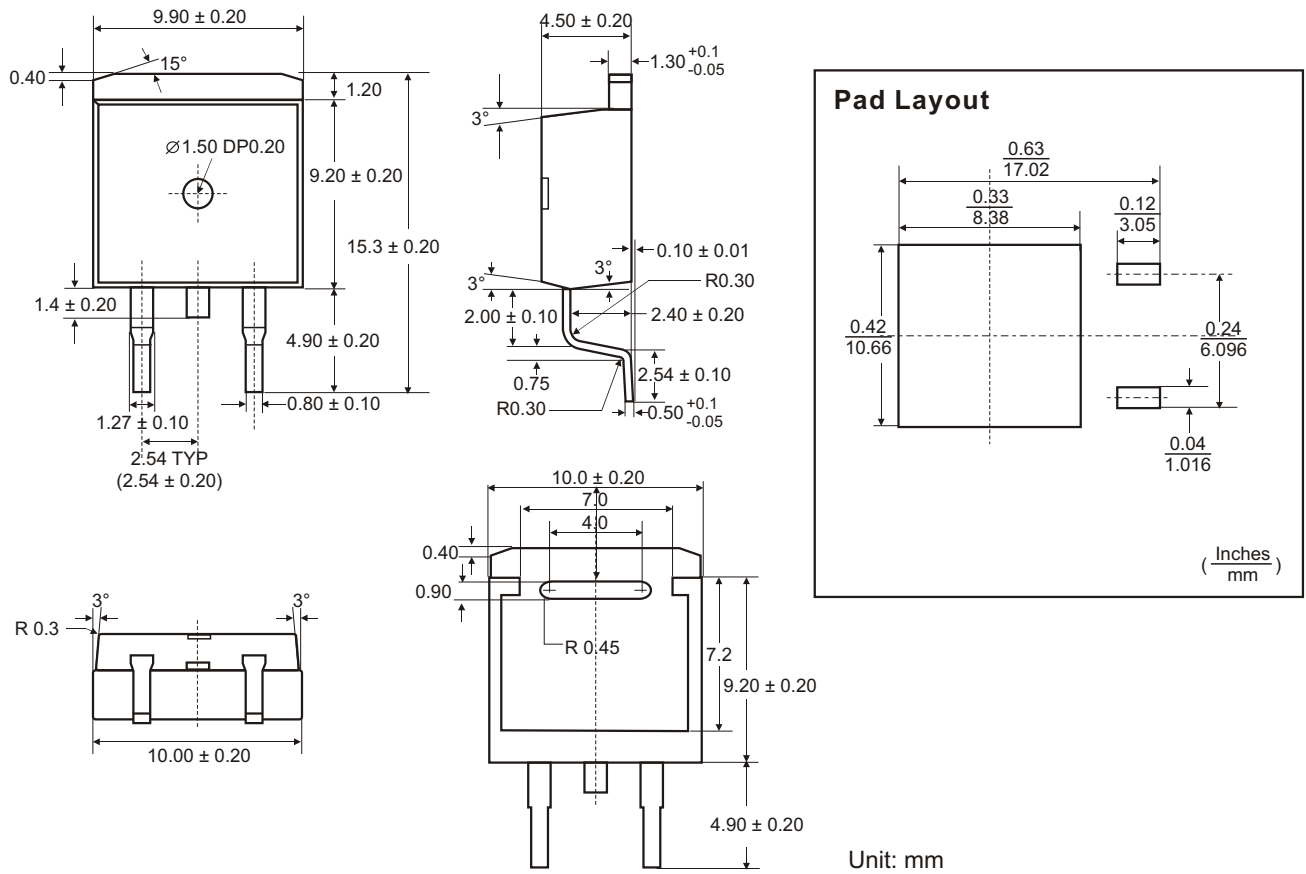
◆ TO-3P PACKAGE OUTLINE DIMENSIONS



◆ TO-3PF PACKAGE OUTLINE DIMENSIONS



◆ TO-263-2 PACKAGE OUTLINE DIMENSIONS



◆ ORDERING NUMBER

GM R 30 H 100 C TA3 T

Gamma Micro. ←

Rectifier ←

Current Rating
30: 30A ←

Low V_f family ←

Voltage Rating
100: 100V ←

Shipping
T: Tube
R: Tape & Reel

Package
TA3: TO-263-2
TP3: TO-3P
TPF3: TO-3PF
TB3: TO-220AB
TBF3: TO-220FPAB

Dual Cathode Common

GAMMA Micro, , and  are registered trademarks of GAMMA MICROELECTRONICS INC. GAMMA reserves the right to make changes without further notice to any products herein. Information provided herein is alleged to be exact and consistent and this publication surpasses and replaces all information previously supplied.

GAMMA makes no warranty the suitability of its products for any particular purpose, nor does GAMMA assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability including without limitation special, consequential or incidental damages. GAMMA products are not authorized for using as critical components in life support devices or systems without prior written approval from GAMMA MICROELECTRONICS INC.