

DESCRIPTION

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

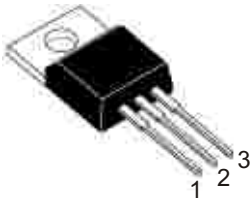
Major Ratings and Characteristics

Characteristics	Values	Unit
$I_{F(AV)}$ Rectangular waveform	2 X 15	A
V_{RRM}	150	V
V_F @15 Apk, $T_C = 125^\circ\text{C}$ (per leg)	0.67	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

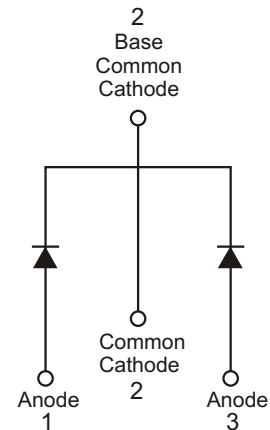
TO-220AB



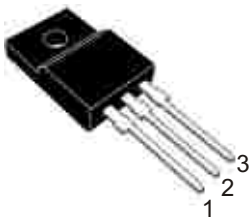
TO-263-2(D²PAK)



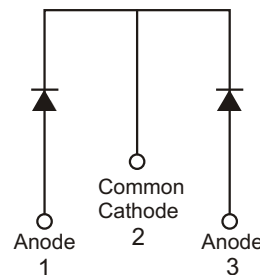
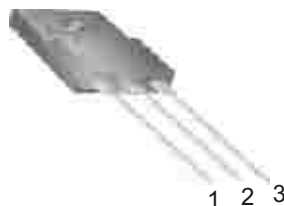
TO-3P



TO-220FPAB

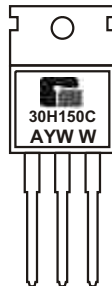


TO-3PF

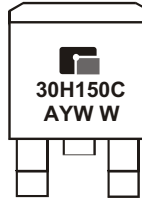


◆ MARKING INFORMATION

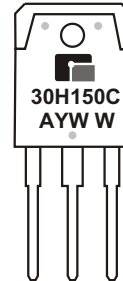
TO - 220AB



TO-263-2 (D²PAK)



TO - 3P



A : Assembly Location
Y : Year
WW : Weekly

◆ ORDERING INFORMATION

Ordering Number	Package	Shipping
GMR30H150CTA3T	TO - 263-2	50 Unit/ Tube
GMR30H150CTA3R	TO - 263-2	800 Unit/ Tape & Reel
GMR30H150CTB3T	TO - 220AB	50 Unit/ Tube
GMR30H150CTBF3T	TO - 220FPAB	50 Unit/ Tube
GMR30H150CTP3T	TO - 3P	30 Unit/ Tube
GMR30H150CTPF3T	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		150	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	$^\circ\text{C/W}$

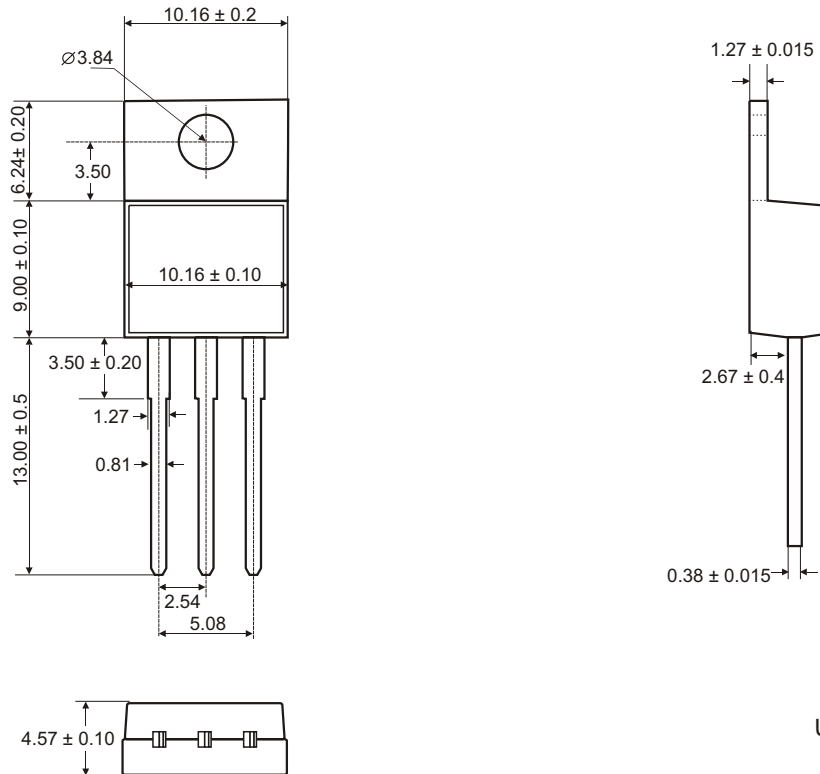
◆ **Electrical Characteristics** ($T_c = 25^\circ\text{C}$ unless otherwise noted)

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	0.83	V
	$I_F = 15\text{A}, T_C = 125^\circ\text{C}$		0.67	
	$I_F = 30\text{A}, T_C = 25^\circ\text{C}$		-	
	$I_F = 30\text{A}, T_C = 125^\circ\text{C}$		-	
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

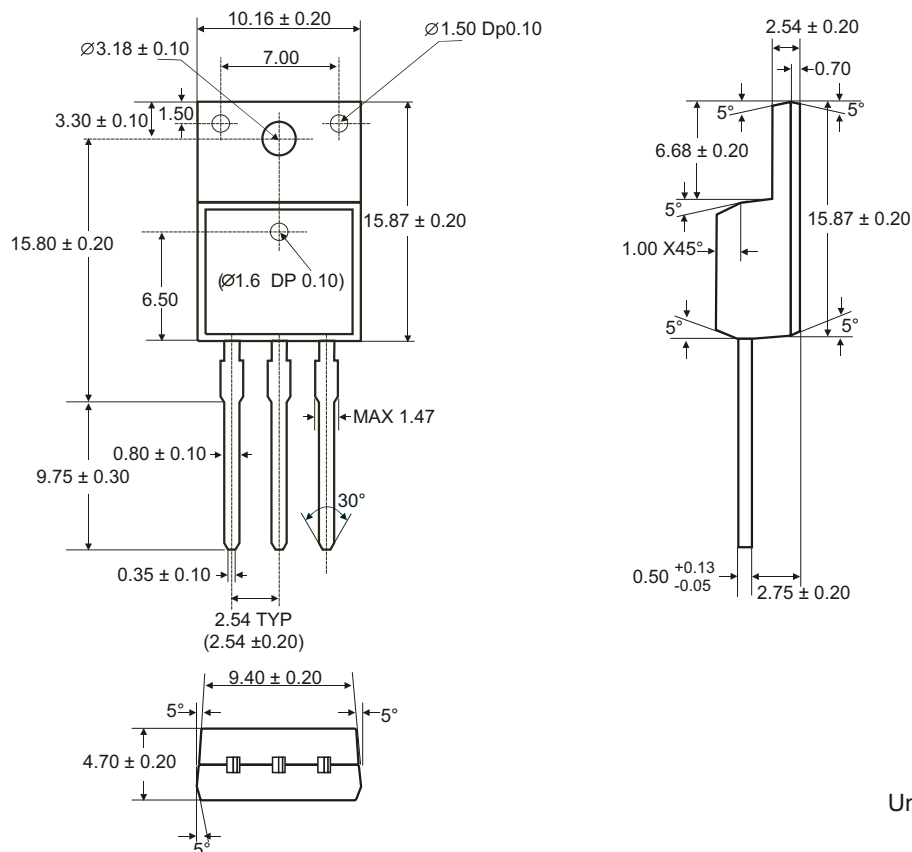
Note 1: Pulse Test: Pulse Width= 300 μs , Duty Cycle $\leq 2.0\%$

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ TO-220AB PACKAGE OUTLINE DIMENSIONS

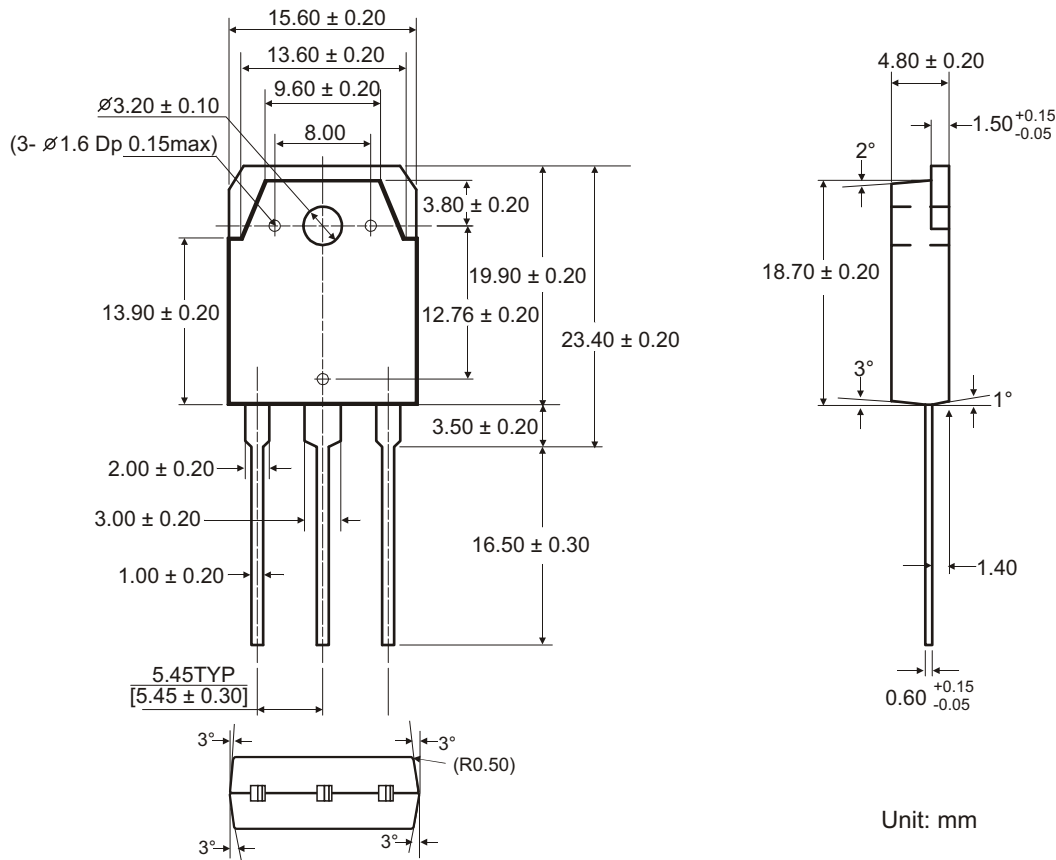


◆ TO-220FPAB PACKAGE OUTLINE DIMENSIONS

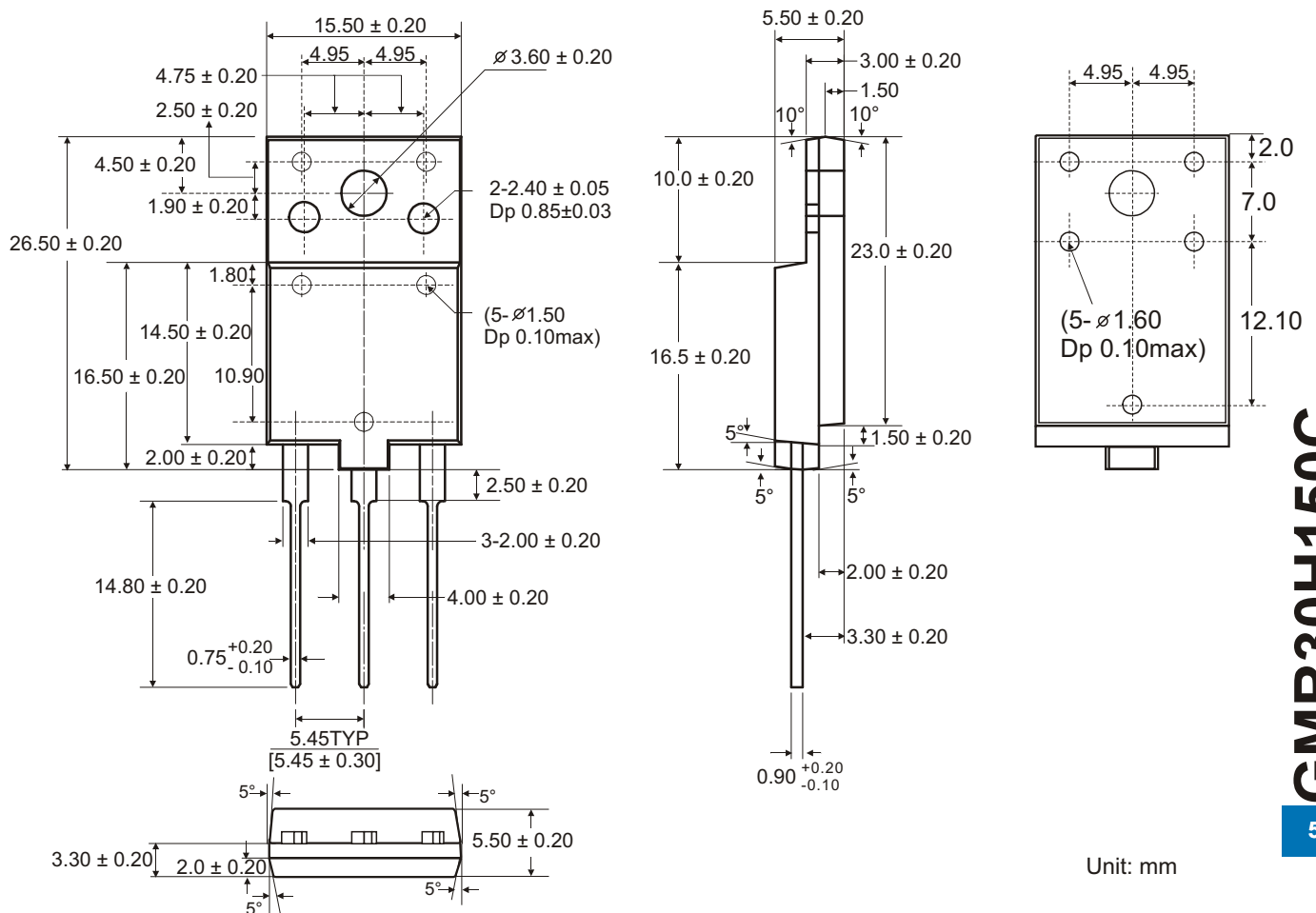


HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ TO-3P PACKAGE OUTLINE DIMENSIONS

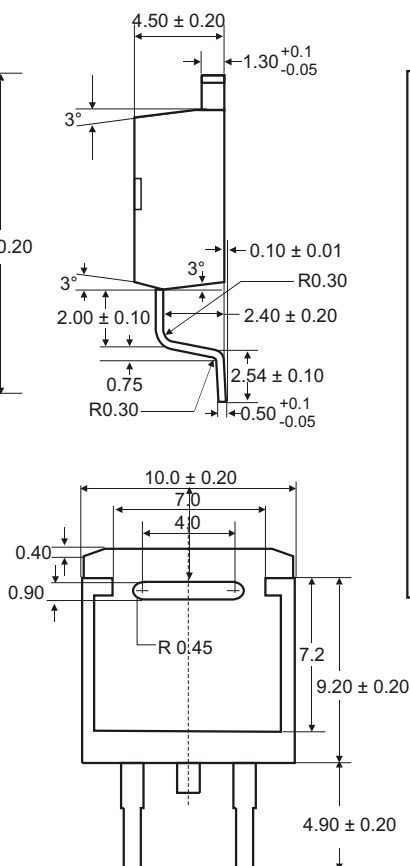


◆ TO-3PF PACKAGE OUTLINE DIMENSIONS



Technical drawing of a rectangular component with dimensions and tolerances:

- Top width: 9.90 ± 0.20
- Top left corner chamfer: 15°
- Top left corner radius: 0.40
- Top right corner radius: 1.20
- Inner square hole side length: 9.20 ± 0.20
- Inner square hole hole diameter: $\varnothing 1.50$ DP0.20
- Bottom width: 15.3 ± 0.20
- Bottom left corner radius: 1.4 ± 0.20
- Bottom right corner radius: 4.90 ± 0.20
- Bottom left corner hole diameter: 1.27 ± 0.10
- Bottom right corner hole diameter: 0.80 ± 0.10
- Bottom center hole diameter: 2.54 TYP (2.54 ± 0.20)



Unit: mm

GM R 30 H 150 C TA3 T

Voltage Rating
150: 150V

Package
▶ TA3: TO-263-2
TB3: TO-220AB
TBF3: TO-220FPAB

Dual Cathode Common

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