

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER**Description**

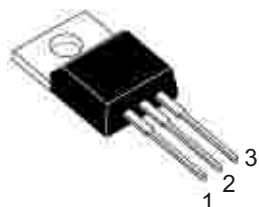
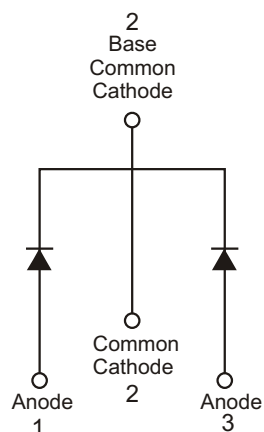
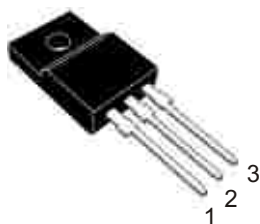
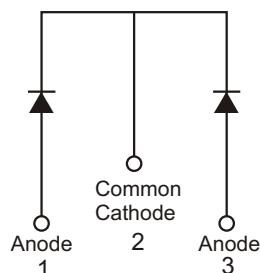
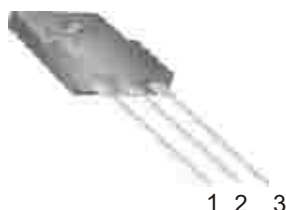
Dual center tap schottky rectifier designed for high frequency Switched Mode Power Supplies.

Major Ratings and Characteristics

Characteristics	Values	Unit
$I_{F(AV)}$ Rectangular waveform	2 X 15	A
V_{RRM}	45	V
V_F @15 Apk, $T_C = 125^\circ\text{C}$ (per leg)	0.57	V
T_J range	-45 ~ 150	$^\circ\text{C}$

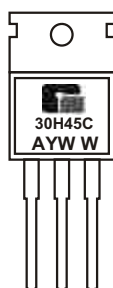
Features

- ◆ HIGH JUNCTION TEMPERATURE CAPABILITY
- ◆ GOOD TRADE OFF BETWEEN LEAKAGE CURRENT AND FORWARD VOLTAGE DROP
- ◆ LOW LEAKAGE CURRENT

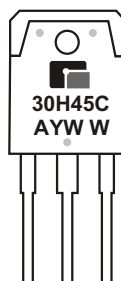
TO-220AB**TO-3P****TO-220FPAB****TO-3PF**

◆ MARKING INFORMATION

TO - 220AB



TO - 3P



A : Assembly Location
Y : Year
WW : Weekly

◆ ORDERING INFORMATION

Ordering Number	Package	Shipping
GMR30H45CTB3T	TO - 220AB	50 Unit/ Tube
GMR30H45CTBF3T	TO - 220FPAB	50 Unit/ Tube
GMR30H45CTP3T	TO - 3P	30 Unit/ Tube
GMR30H45CTPF3T	TO - 3PF	30 Unit/ Tube

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

◆ ABSOLUTE RATINGS ($T_C = 25^{\circ}\text{C}$)

Symbol	Parameter		Value	Unit
V_{RRM}	Repetitive peak reverse voltage		45	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	$^{\circ}\text{C}$

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

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

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

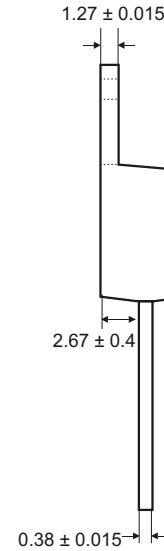
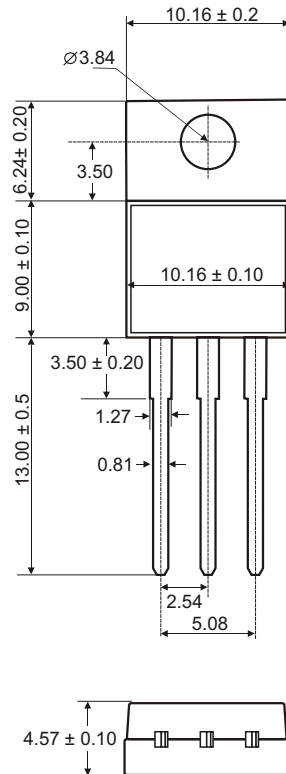
Parameter	Symbol	Value	Unit
Maximum instantaneous forward voltage per leg (Note 1)	$I_F = 15\text{A}, T_c = 25^\circ\text{C}$	0.68	V
	$I_F = 15\text{A}, T_c = 125^\circ\text{C}$	0.57	
	$I_F = 30\text{A}, T_c = 25^\circ\text{C}$	-	
	$I_F = 30\text{A}, T_c = 125^\circ\text{C}$	-	
Maximum reverse current per leg at working peak reverse voltage (Note 1)	$T_J = 25^\circ\text{C}$	10	μA
	$T_J = 125^\circ\text{C}$	10	mA

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



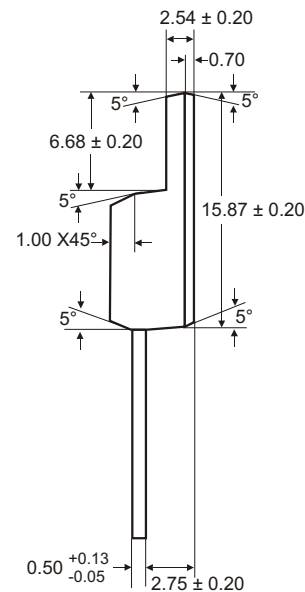
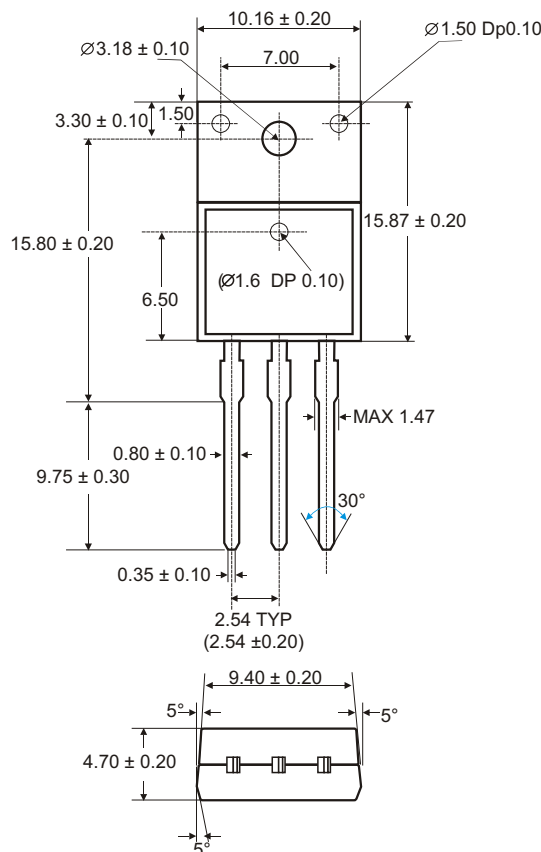
HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ TO-220AB PACKAGE OUTLINE DIMENSIONS



Unit: mm

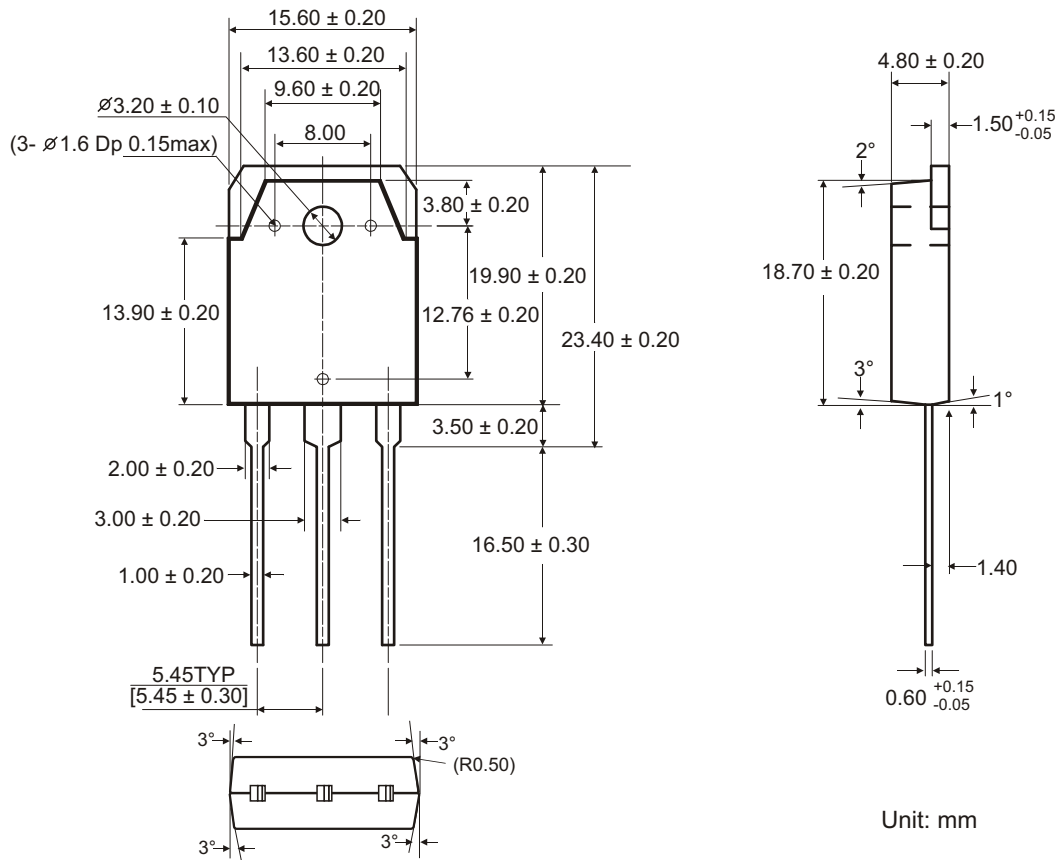
◆ TO-220FPAB PACKAGE OUTLINE DIMENSIONS



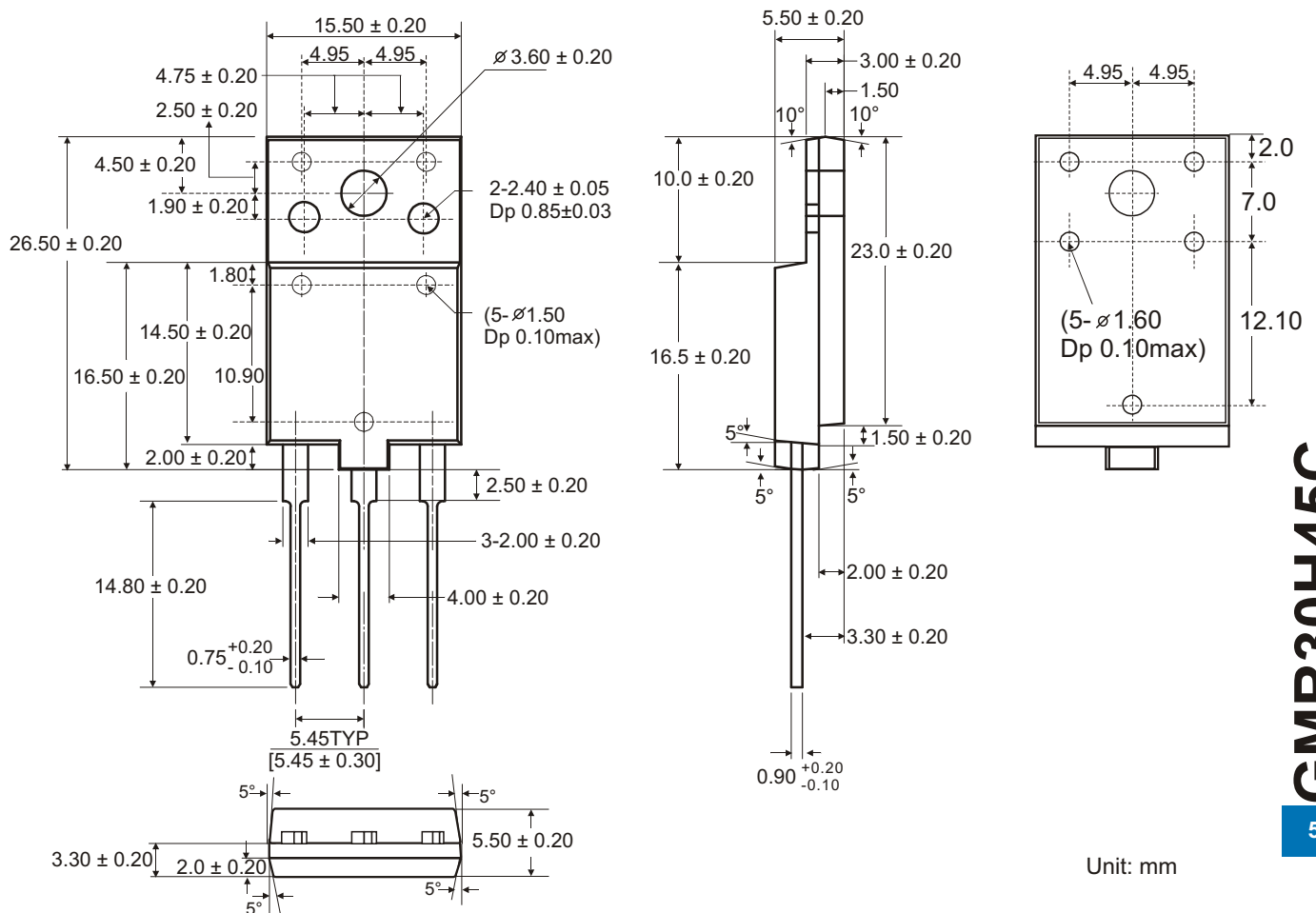
Unit: mm

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

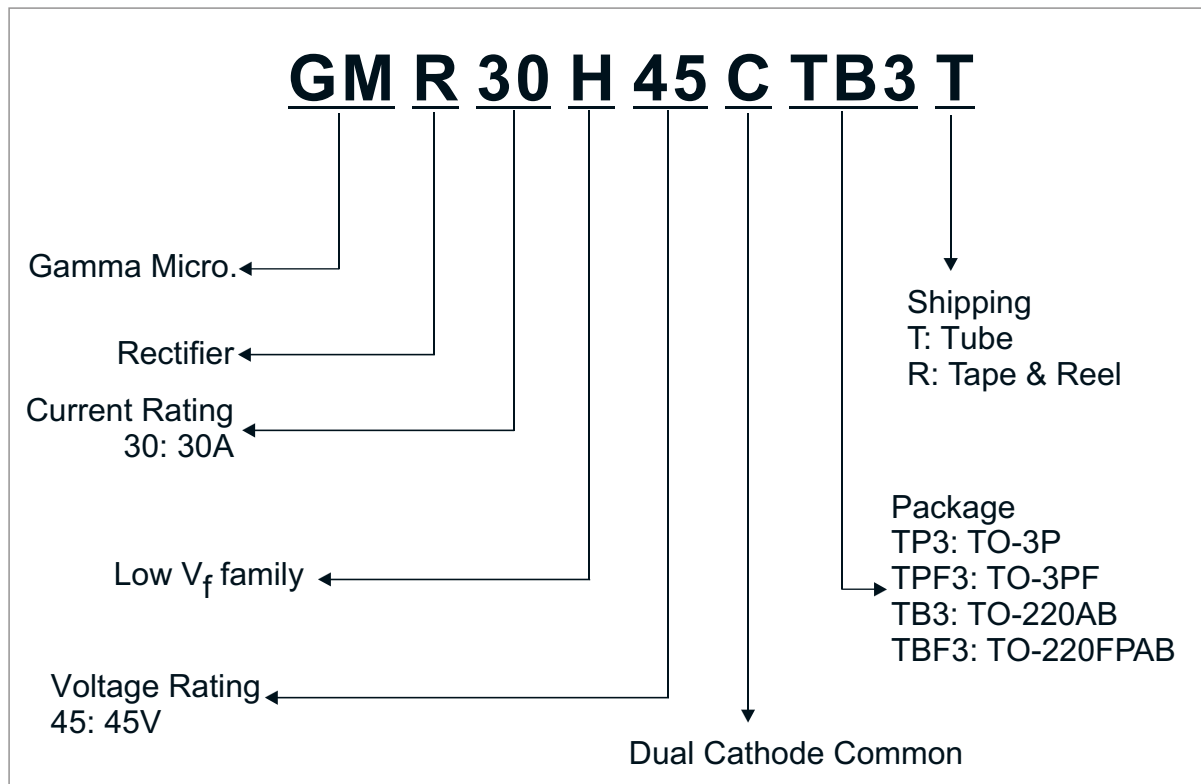
◆ TO-3P PACKAGE OUTLINE DIMENSIONS



◆ TO-3PF PACKAGE OUTLINE DIMENSIONS



◆ ORDERING NUMBER



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