

### Description

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

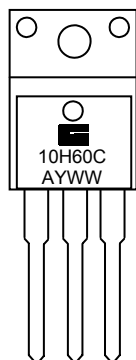
### Features

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

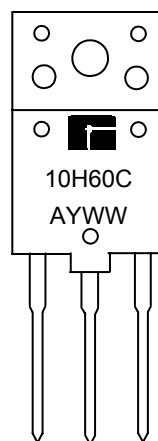
### Applications

- |                           |                        |
|---------------------------|------------------------|
| ■ Switching Power Supply  | ■ LCD Monitor/TV       |
| ■ Industrial Application  | ■ AC-DC Converter      |
| ■ Computer and Peripheral | ■ DC-DC Converter      |
| ■ Home Appliance          | ■ Telecommunication    |
| ■ Consumer Product        | ■ Free Wheeling Diodes |
| ■ Battery Charger/Adapter | ■ Polarity Protection  |

### Marking Information and Pin Configurations (Top View)



TO - 220FPAB & TO - 220AB



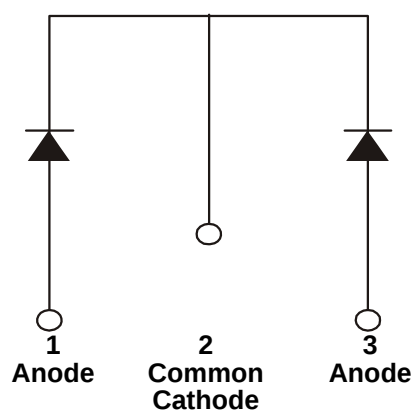
TO - 3P

10: Maximum average forward rectified current - 10A  
 H: Low  $V_F$  family  
 60: Repetitive peak reverse voltage - 60V  
 C: Dual Cathode Common  
 A: Assembly Location  
 Y: Year  
 WW: Work Week

## Ordering Information

| ORDERING NUMBER | PACKAGE   | SHIPPING       |
|-----------------|-----------|----------------|
| GMR10H60CTB3T   | TO220AB   | 50 Units/ Tube |
| GMR10H60CTBF3T  | TO220FPAB | 50 Units/ Tube |
| GMR10H60CTP3T   | TO-3P     | 30 Units/ Tube |

## Block Diagram



## Absolute Maximum Ratings

| PARAMETER                                                                                        | SYMBOL       | VALUE       | UNITS |
|--------------------------------------------------------------------------------------------------|--------------|-------------|-------|
| Repetitive Peak Reverse Voltage                                                                  | $V_{RPM}$    | 60          | V     |
| RMS Forward Current                                                                              | $I_{F(RMS)}$ | 10          | A     |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD) | $I_{FSM}$    | 135         | A     |
| Maximum Operating Junction Temperature                                                           | $T_J$        | 150         | °C    |
| Operating storage temperature                                                                    | $T_{STG}$    | -45 to +150 | °C    |
| Voltage Rate of Change                                                                           | dV/dt        | 10,000      | V/μs  |
| Electrostatic Discharge Voltage. JEDEC Method. ESD HBM. Contact                                  | $V_{ESD}$    | ± 8         | kV    |

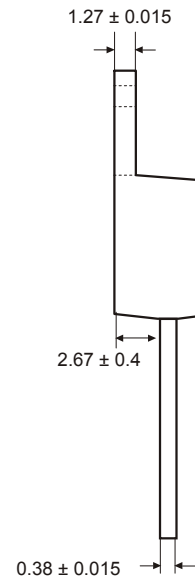
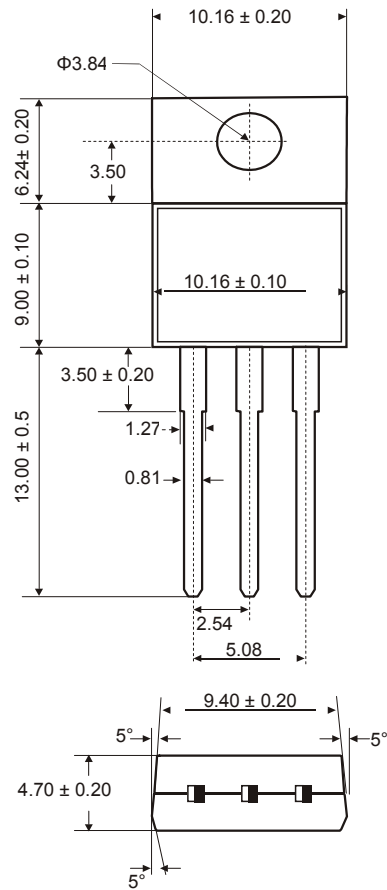
## Thermal Characteristics

| PARAMETER                          | SYMBOL        | TO220AB | TO220FPAB | TO-3PF | UNITS |
|------------------------------------|---------------|---------|-----------|--------|-------|
| Typical thermal resistance per leg | $\Theta_{JC}$ | 2.4     | 4.2       | 1.2    | °C/W  |

## Electrical Characteristics (per diode) $T_J = 25^\circ\text{C}$ , Unless otherwise noted

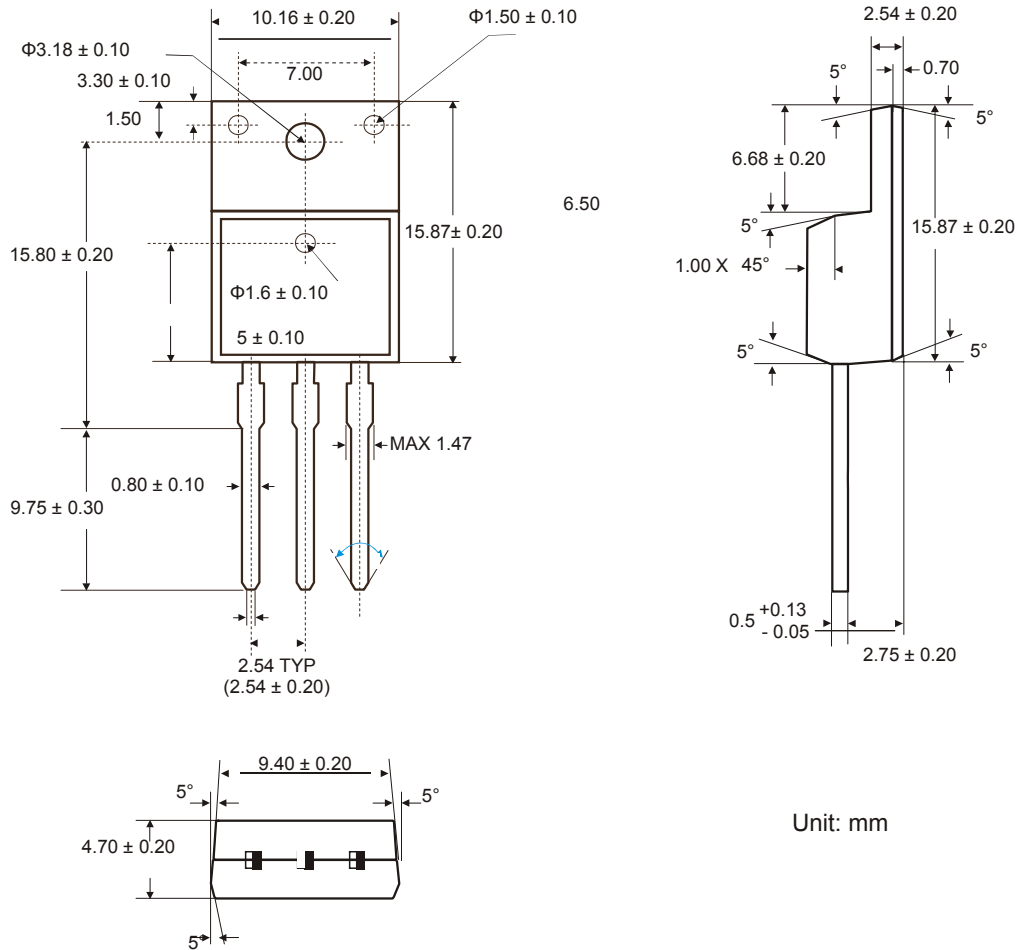
| PARAMETER                         | SYMBOL      | Test Condition                               | Min | Typ  | Max  | Units |
|-----------------------------------|-------------|----------------------------------------------|-----|------|------|-------|
| DC Forward Voltage                | $V_F$       | $I_F = 5\text{A}$                            |     | 0.73 | 0.75 | V     |
| Average Rectified Forward Current | $I_{F(AV)}$ |                                              |     |      | 5.0  | A     |
| Maximum Reverse Current           | $I_R$       | $V_R = 150\text{V}$                          | -   | -    | 8    | μA    |
|                                   |             | $V_R = 150\text{V}, T_J = 125^\circ\text{C}$ |     | -    | 8    | mA    |

### Package Outline Dimensions – TO220AB

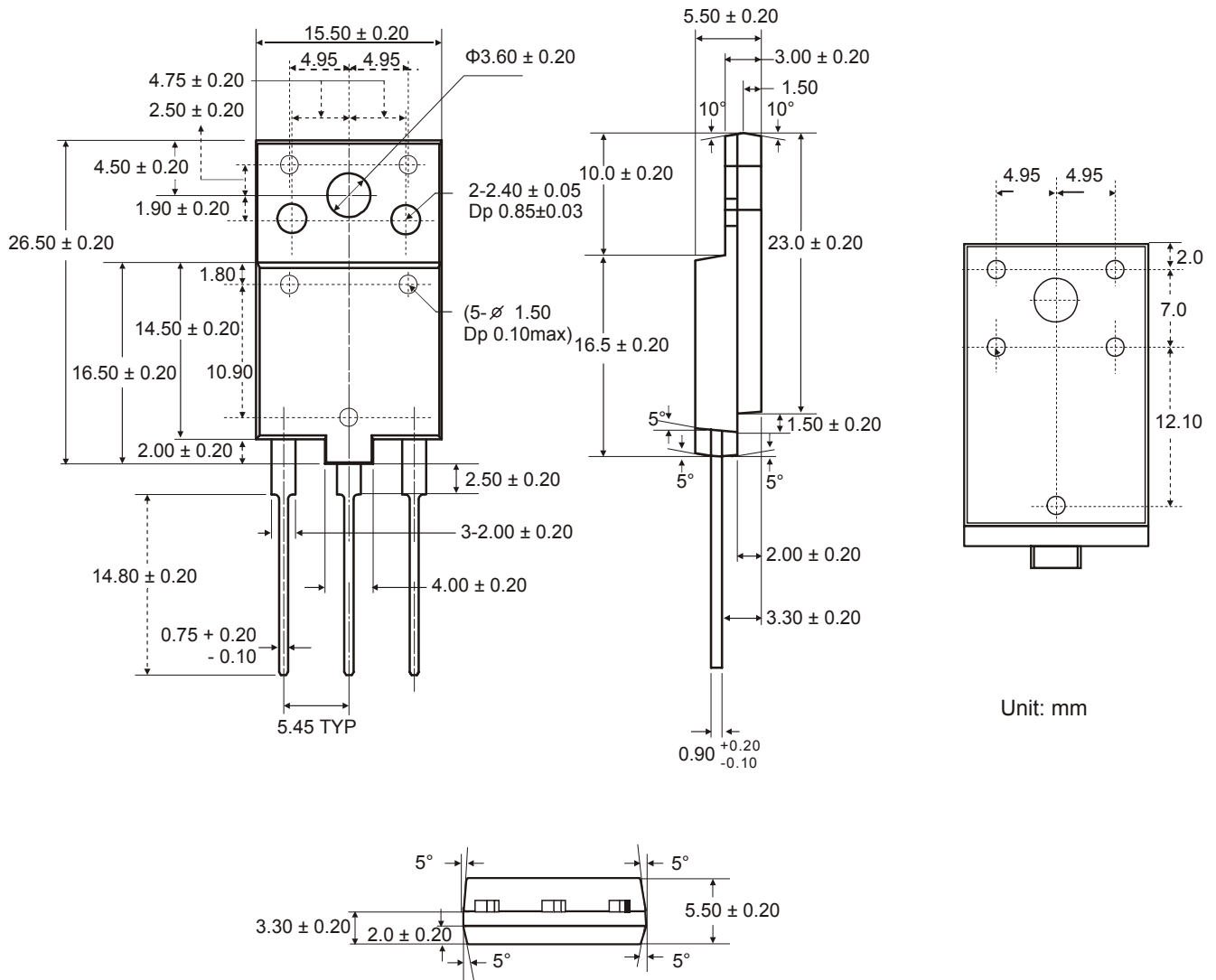


Unit: mm

**Package Outline Dimensions – TO220FPAB**



### Package Outline Dimensions – TO-3P



### Ordering Number

**GM R 10 H 60 C TB3 I**

APM  
Gamma  
Micro

Circuit  
Type:  
Rectifier

Rated  
Current  
10A

Low  $V_F$   
Family

Rated  
Voltage  
60V

Dual  
Cathode  
Common

Package  
TB3: TO220AB  
TBF3: TO220FPAB  
TP3: TO-3P

Shipping  
T: Tube