GMR10H100C

10A SCHOTTKY RECTIFIER

Description

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

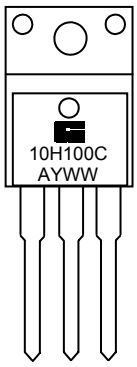
Features

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

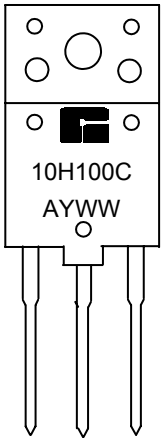
Applications

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

Marking Information and Pin Configurations (Top View)



TO - 220FPAB & TO - 220AB



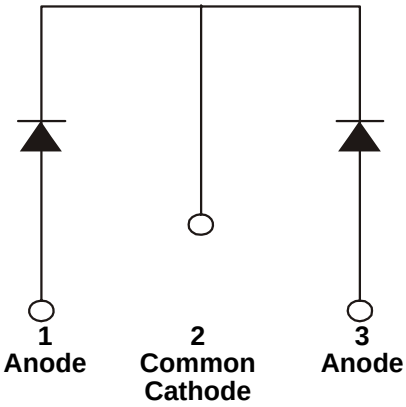
TO – 3PF

10: Maximum average forward rectified current - 10A
H: Low V_F family
100: Repetitive peak reverse voltage - 100V
C: Dual Cathode Common
A: Assembly Location
Y: Year
WW: Work Week

Ordering Information

ORDERING NUMBER	PACKAGE	SHIPPING
GMR10H100CTB3T	TO220AB	50 Units/ Tube
GMR10H100CTBF3T	TO220FPAB	50 Units/ Tube
GMR10H100CTPF3	TO-3PF	30 Units/ Tube

Block Diagram



Absolute Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNITS
Repetitive Peak Reverse Voltage	V_{RPM}	100	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	$T_{J,}$	175	°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

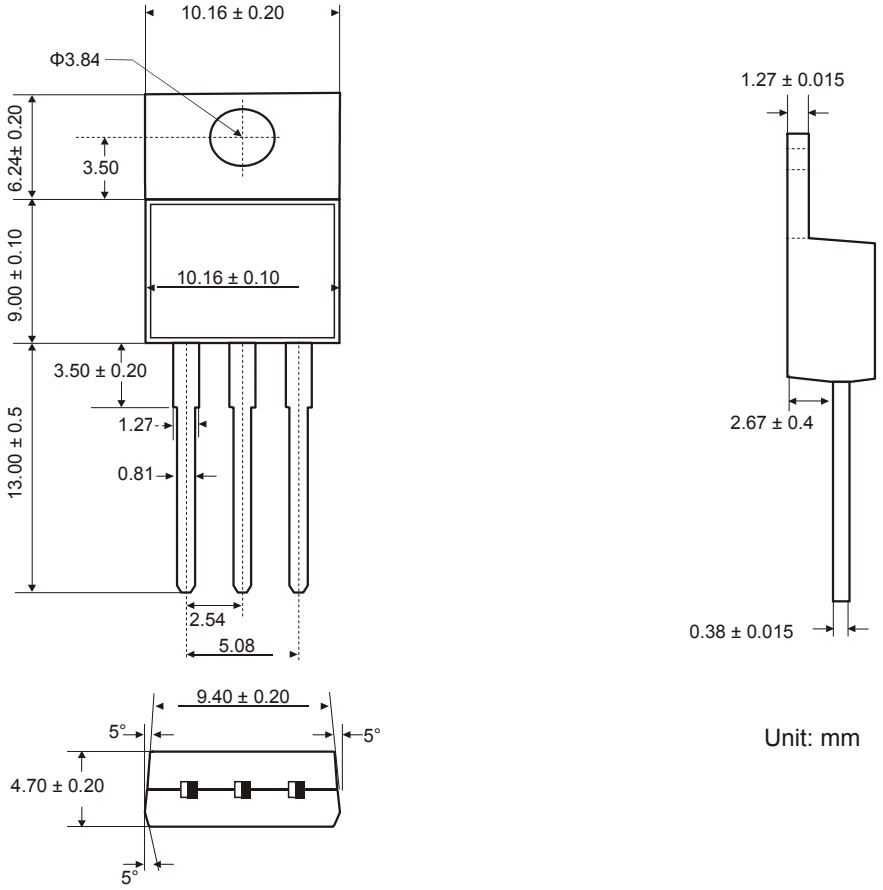
Thermal Characteristics

PARAMETER	SYMBOL	TO220AB	TO220FPAB	TO-3PF	UNITS
Typical thermal resistance	Θ_{JC}	2.4	4.2	1.2	°C/W

Electrical Characteristics (per diode) T_J = 25°C, Unless otherwise noted

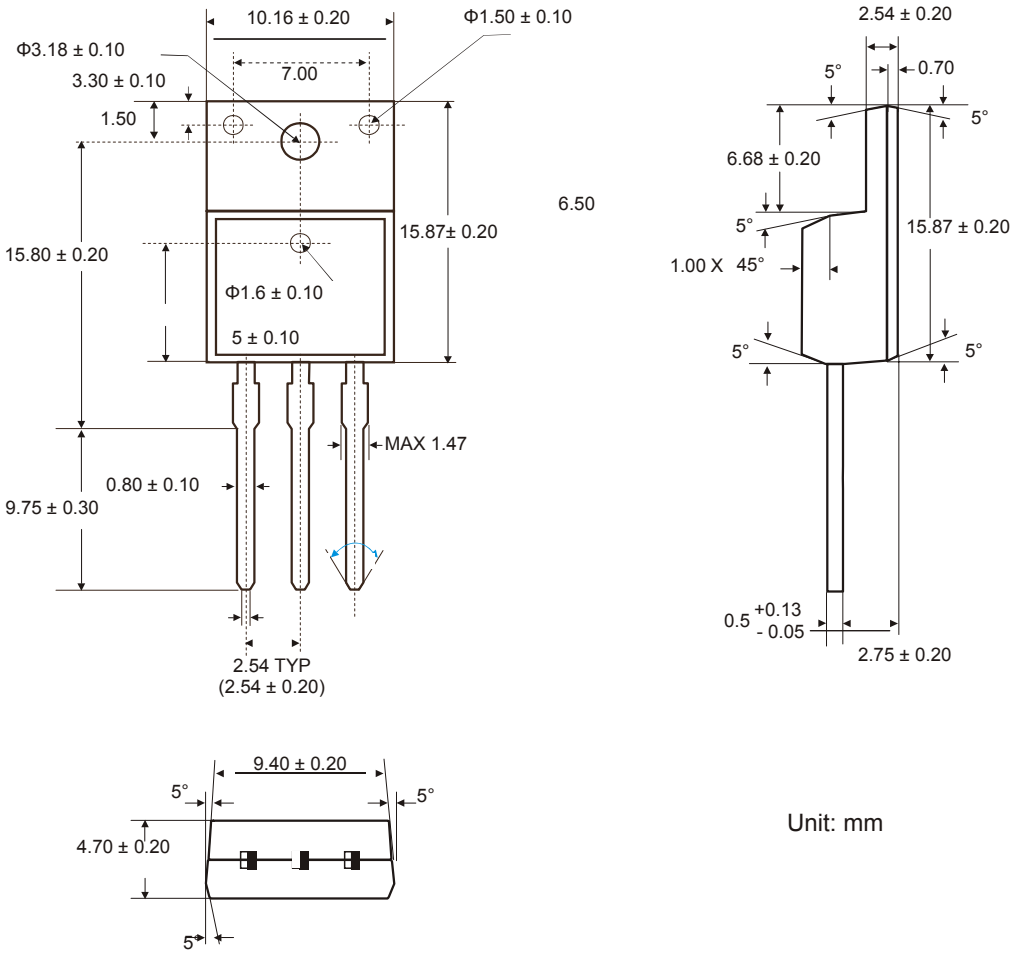
PARAMETER	SYMBOL	Test Condition	Min	Typ	Max	Units
DC Forward Voltage	V_F	I_F = 5A		0.77	0.81	V
Average Rectified Forward Current	$I_{F(AV)}$				5.0	A
Maximum Reverse Current	I_R	V_R = 150V	-	-	5	μA
		V_R = 150V, T_J = 125°C		-	5	mA

Package Outline Dimensions – TO220AB



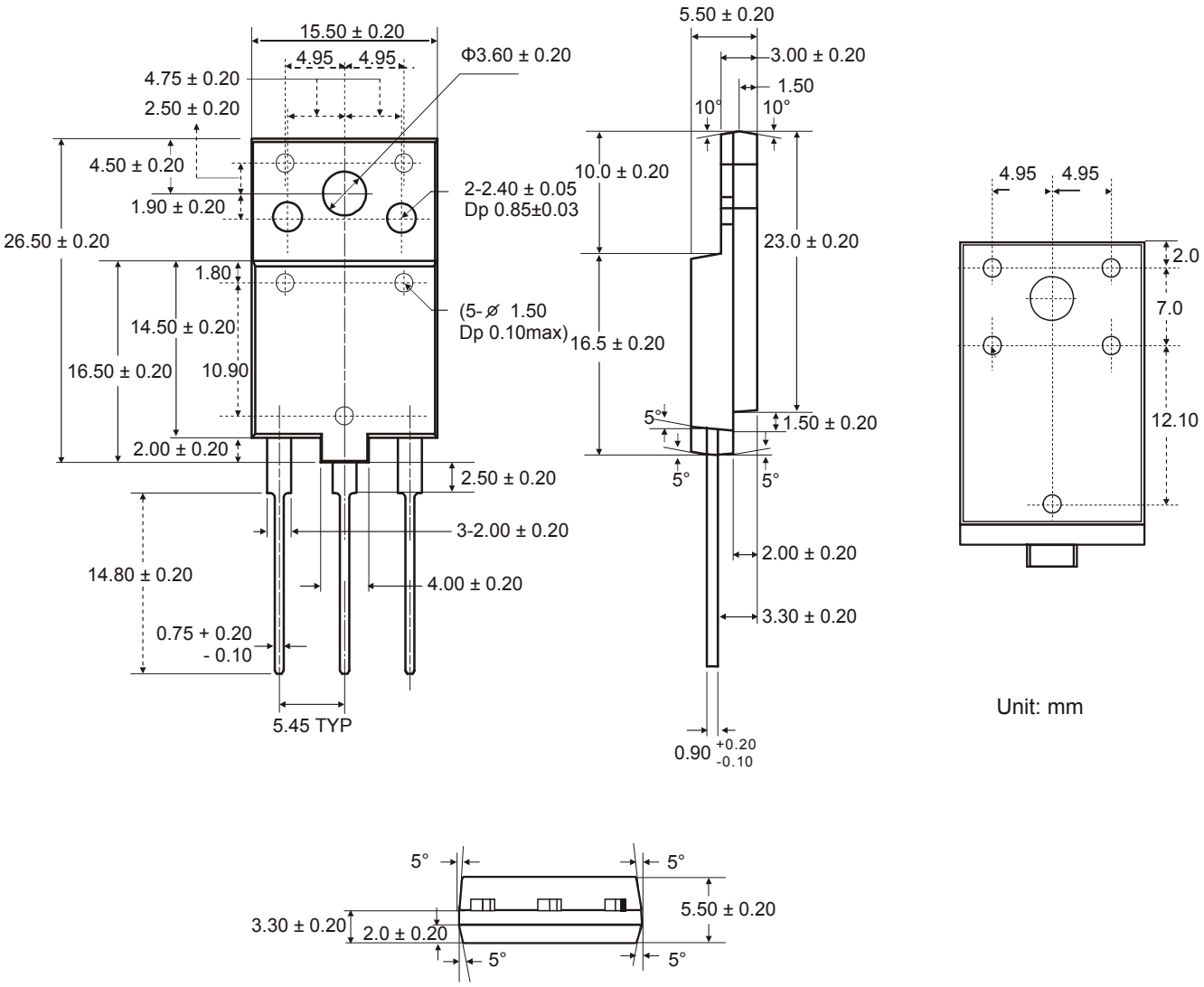
Unit: mm

Package Outline Dimensions – TO220FPAB



Unit: mm

Package Outline Dimensions – TO-3PF



Ordering Number

GM	R	10	H	100	C	TB3	T
APM Gamma Micro	Circuit Type: Rectifier	Rated Current 10A	Low V_F Family	Rated Voltage 100V	Dual Cathode Common	Package TB3: TO220AB TBF3:TO220FPAB TPF3: TO-3PF	Shipping T: Tube R: Tape & Reel