

Description

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

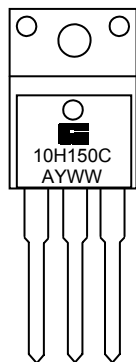
Features

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

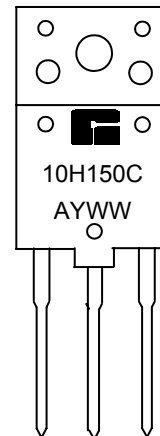
Applications

- | | |
|--|--|
| <ul style="list-style-type: none"> ■ Switching Power Supply ■ Industrial Application ■ Computer and Peripheral ■ Home Appliance ■ Consumer Product ■ Battery Charger/Adapter | <ul style="list-style-type: none"> ■ LCD Monitor/TV ■ AC-DC Converter ■ DC-DC Converter ■ Telecommunication ■ Free Wheeling Diodes ■ Polarity Protection |
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Marking Information and Pin Configurations (Top View)



TO - 220FPAB & TO - 220AB



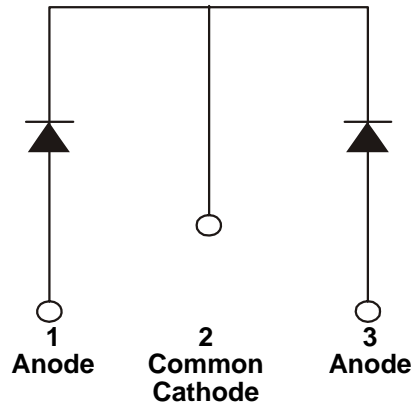
TO - 3PF

10: Maximum average forward rectified current - 10A
 H: Low V_F family
 150: Repetitive peak reverse voltage - 150V
 C: Dual Cathode Common
 A: Assembly Location
 Y: Year
 WW: Work Week

Ordering Information

ORDERING NUMBER	PACKAGE	SHIPPING
GMR10H150CTA3T	TO263	50 Units/ Tube
GMR10H150CTA3R	TO263	800 Units/ Tape & Reel
GMR10H150CTB3T	TO220AB	50 Units/ Tube
GMR10H150CTBF3T	TO220FPAB	50 Units/ Tube
GMR10H150CTPF3	TO-3PF	30 Units/ Tube

Block Diagram



Absolute Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNITS
Repetitive Peak Reverse Voltage	V_{RPM}	150	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}	110	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	VESD	± 8	kV

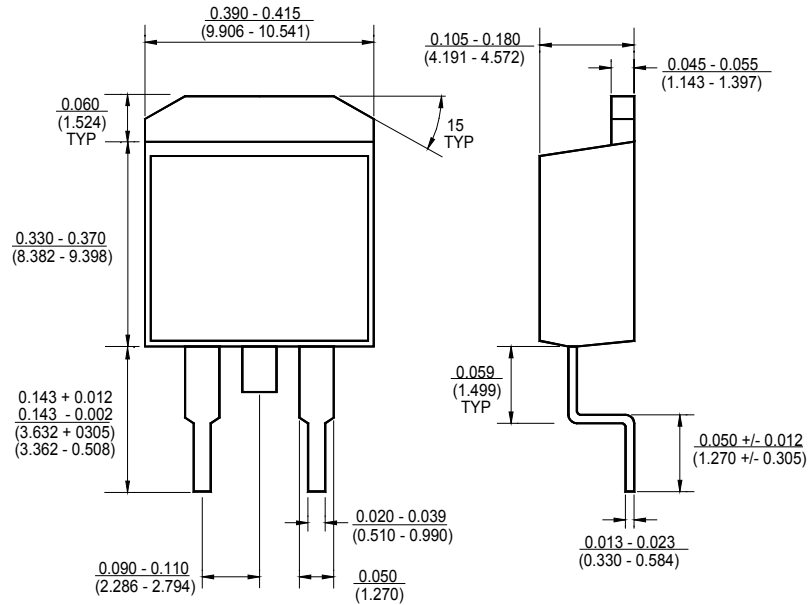
Thermal Characteristics

PARAMETER	SYMBOL	TO220AB	TO220FPAB	TO263	TO-3PF	UNITS
Typical thermal resistance	θ_{JC}	2.4	4.2	2.4	1.2	°C/W

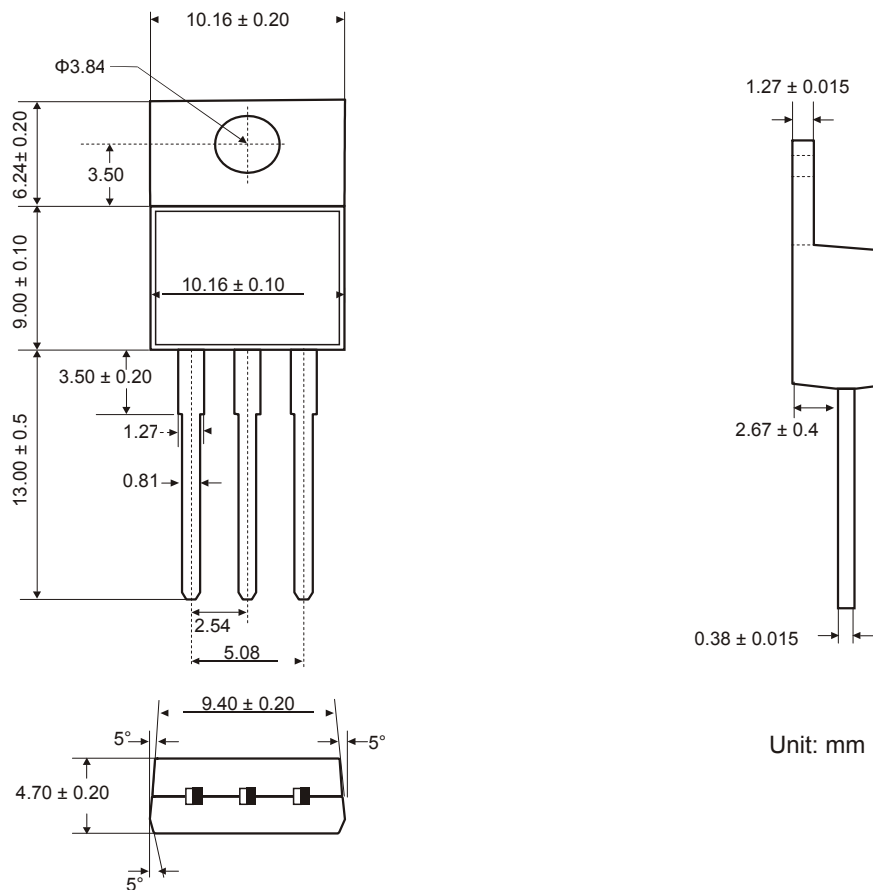
Electrical Characteristics (per diode) $T_J = 25^\circ\text{C}$, Unless otherwise noted

PARAMETER	SYMBOL	Test Condition	Min	Typ	Max	Units
DC Forward Voltage	V_F	$I_F = 5\text{A}$		0.85	0.87	V
Average Rectified Forward Current	$I_{F(AV)}$				5.0	A
Maximum Reverse Current	I_R	$V_R = 150\text{V}$	-	-	5	μA
		$V_R = 150\text{V}, T_J = 125^\circ\text{C}$		-	5	mA

Package Outline Dimensions – TO263

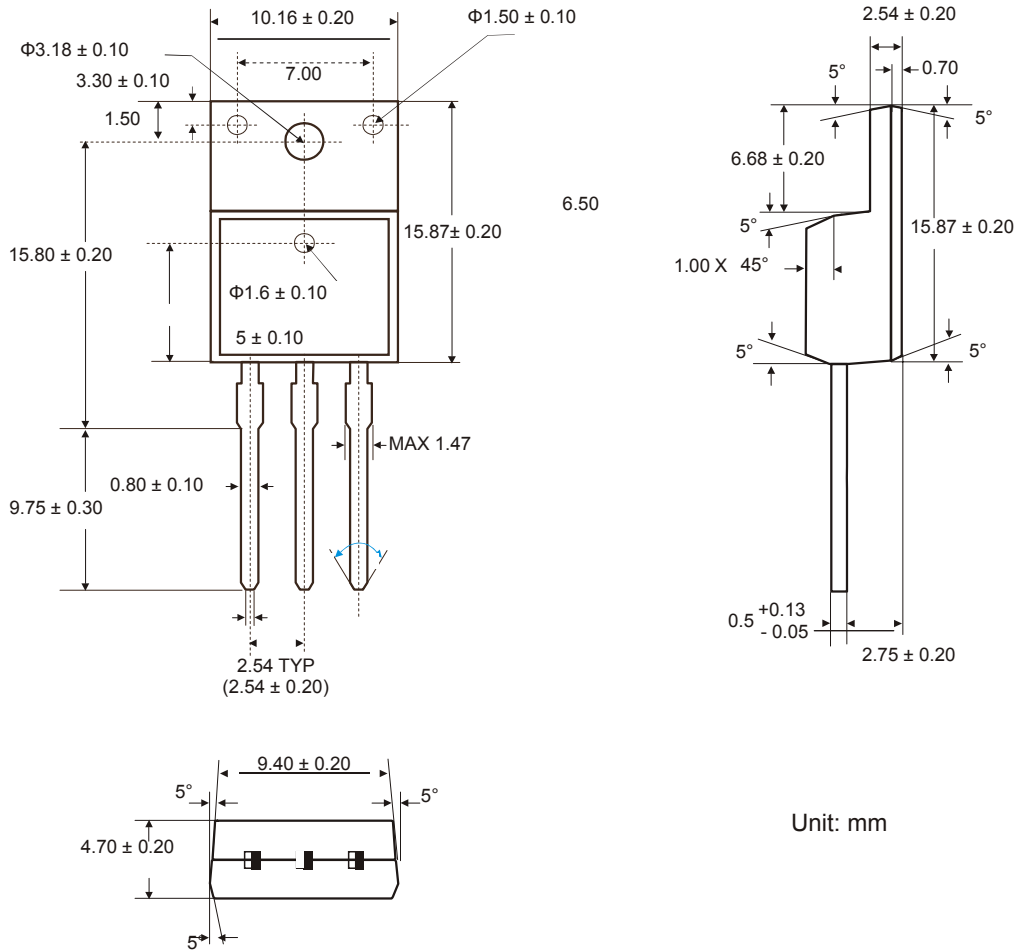


Package Outline Dimensions – TO220AB

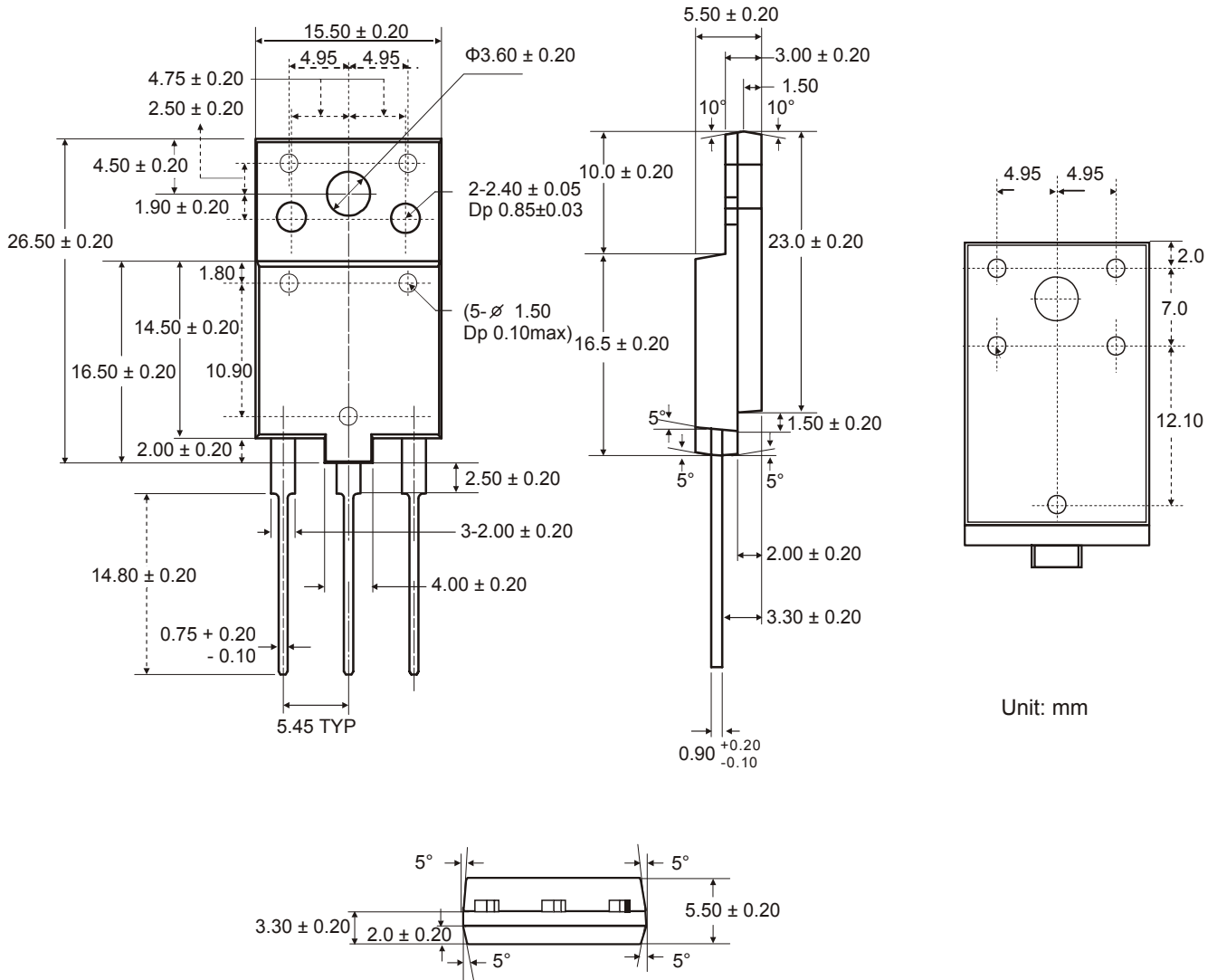


Unit: mm

Package Outline Dimensions – TO220FPAB



Package Outline Dimensions – TO-3PF



Ordering Number

GM R 10 H 150 C TA3 I

APM
Gamma
Micro

Circuit
Type:
Rectifier

Rated
Current
10A

Low V_F
Family

Rated
Voltage
150V

Dual
Cathode
Common

Package

TA3: TO263
TB3: TO220AB
TBF3: TO220FPAB
TPF3: TO-3PF

Shipping

T: Tube
R: Tape & Reel