GMR20H100C

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

DESCRIPTION

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

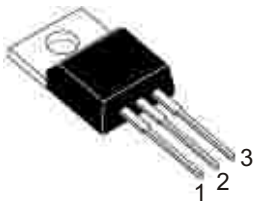
Major Ratings and Characteristics

Characteristics	Values	Unit
$I_{F(AV)}$ Rectangular waveform	2 X 10	A
V_{RRM}	100	V
V_F @10 Apk, T_C = 125°C (per leg)	0.67	V
T_J range	-45 ~ +150	°C

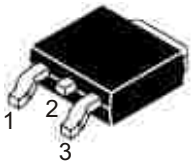
FEATURES

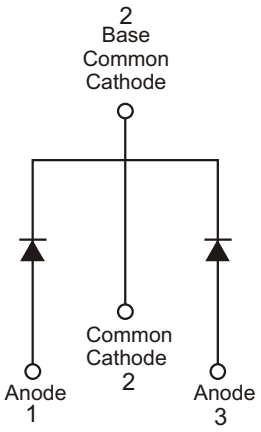
- **High junction temperature capability**
- **Good trade off between leakage current and forward voltage drop**
- **Low leakage current**

TO-220AB

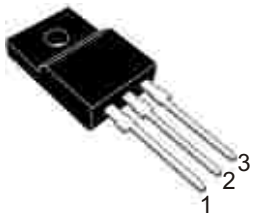


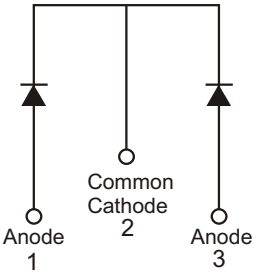
TO-263-2(D^{2}PAK)





TO-220FPAB





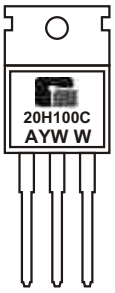
GAMMA MICROELECTRONICS

GMR20H100C

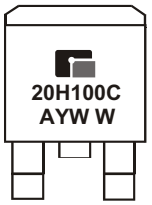
HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ MARKING INFORMATION

TO - 220AB



TO-263-2 (D^2PAK)



A : Assembly Location
Y : Year
WW : Weekly

◆ ORDERING INFORMATION

Ordering Number	Package	Shipping
GMR20H100CTA3T	TO - 263-2	50 Units/ Tube
GMR20H100CTA3R	TO - 263-2	800 Units/ Tape & Reel
GMR20H100CTB3T	TO - 220AB	50 Units/ Tube
GMR20H100CTBF3T	TO - 220FPAB	50 Units/ 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		100	V
$I_{F(AV)}$	Maximum average forward rectified current	per diode per device	10 20	A
I_{FSM}	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per leg. (Non-Repetitive)		200	A
T_j, T_{stg}	Operating junction temperature and storage temperature		-45 to + 150	°C

◆ Thermal Characteristics (Tc = 25°C unless otherwise noted)

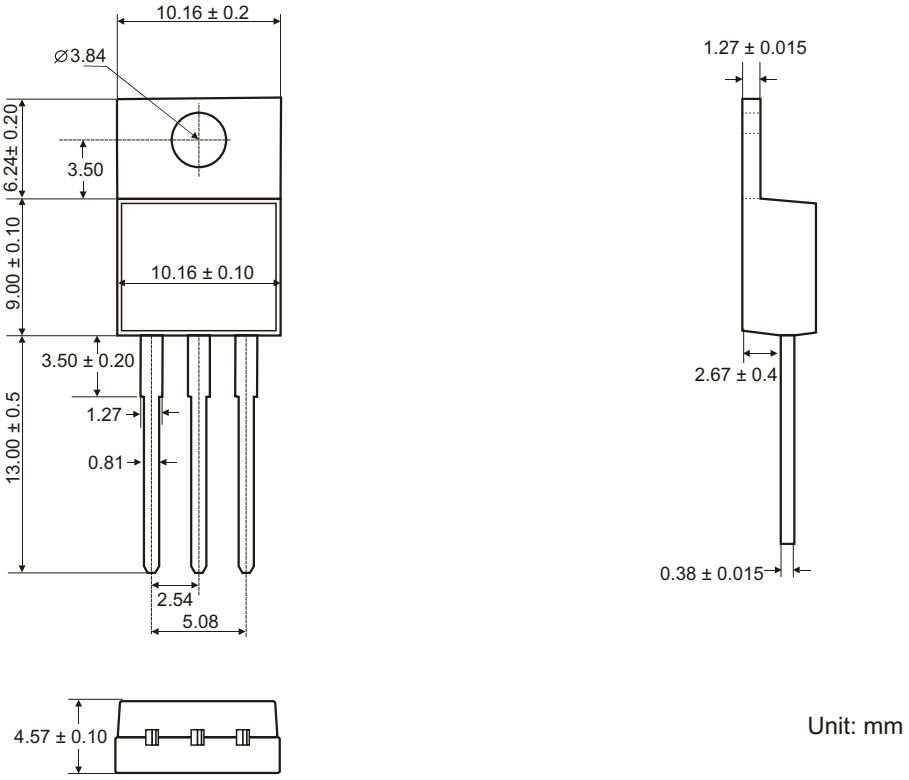
Parameter	Symbol	TO-220AB	TO-220FPAB	TO-263-2	Unit
Typical thermal resistance per leg	RΘJC	2.0	4.0	2.0	°C/W

◆ Electrical Characteristics (Tc = 25°C unless otherwise noted)

Parameter			Symbol	Value	Unit
Maximum instantaneous forward voltage per leg (Note 1)	I_F = 10A, I_F = 10A, I_F = 20A, I_F = 20A,	T_C = 25°C T_C = 125°C T_C = 25°C T_C = 125°C	V_F	0.78 0.67 - -	V
Maximum reverse current per leg at working peak reverse voltage (Note 1)		T_J = 25°C T_J = 125°C	I_R	10 10	μA mA

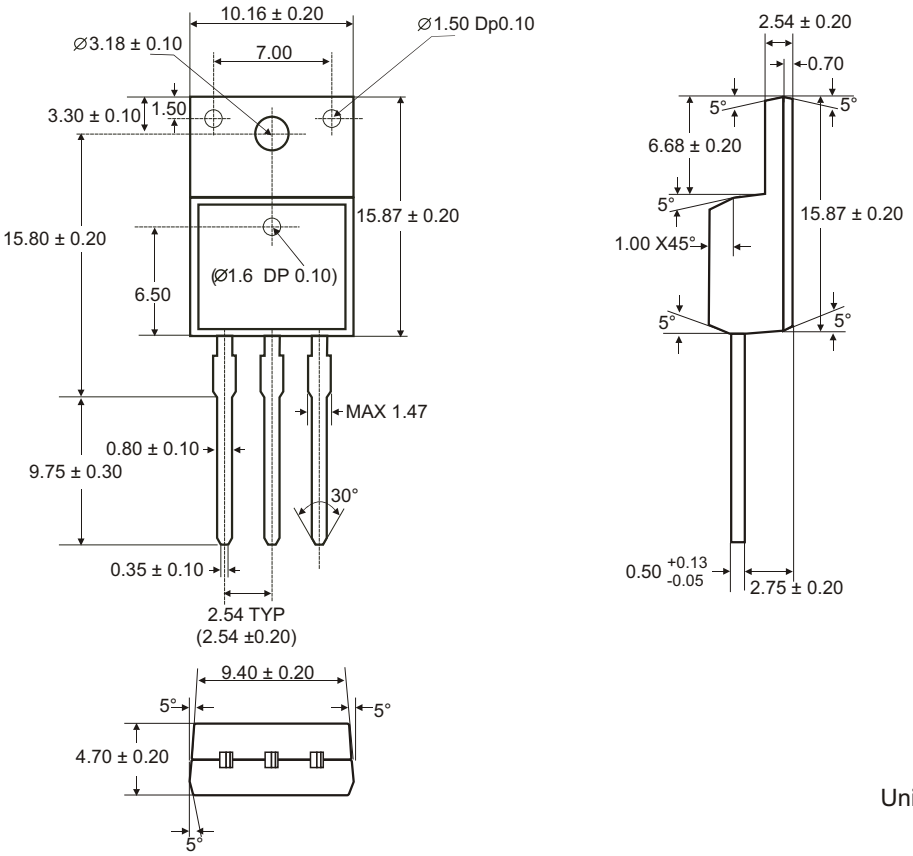
Note 1: Pulse Test: Pulse Width= 300μs, Duty Cycle ≤2.0%

◆ TO-220AB PACKAGE OUTLINE DIMENSIONS



Unit: mm

◆ TO-220FPAB PACKAGE OUTLINE DIMENSIONS



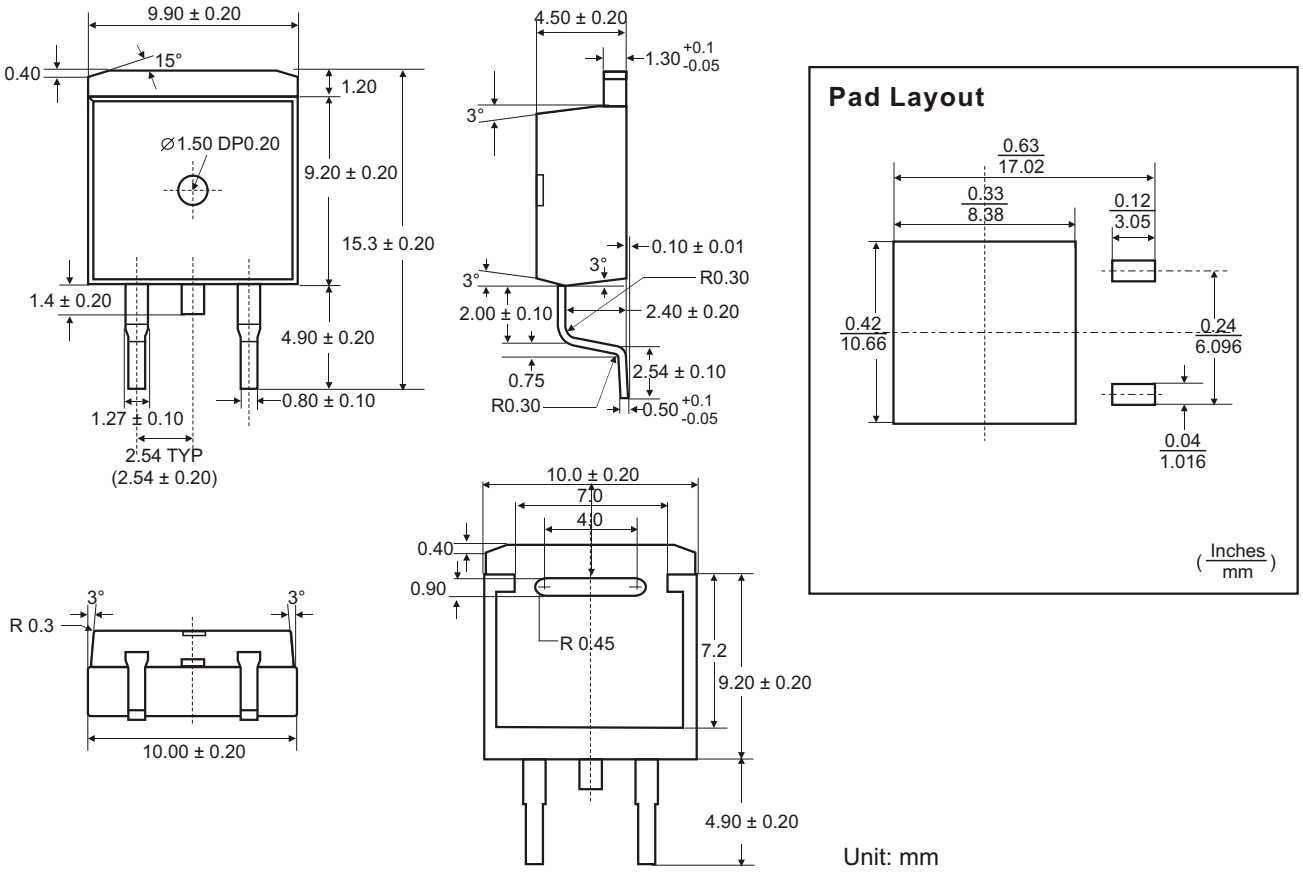
Unit: mm

GAMMA MICROELECTRONICS

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HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ TO-263-2 PACKAGE OUTLINE DIMENSIONS



Unit: mm

◆ ORDERING NUMBER

GM R 20 H 100 C TA3 T

- GM — Gamma Micro.
- R — Rectifier
- 20 — Current Rating 20: 20A
- H — Low V_f family
- 100 — Voltage Rating 100: 100V
- C — Dual Cathode Common
- TA3 — Package TA3: TO-263-2, TB3: TO-220AB, TBF3: TO-220FPAB
- T — Shipping T: Tube, R: Tape & Reel

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