GAMMA MICROELECTRONICS

GMR40H100C

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

DESCRIPTION

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

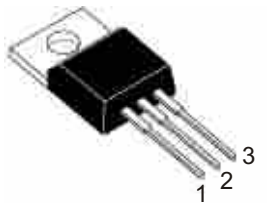
Major Ratings and Characteristics

Characteristics	Values	Unit
$I_{F(AV)}$ Rectangular waveform	2 X 20	A
V_{RRM}	100	V
V_F @20 Apk, T_C = 125°C (per leg)	0.73	V
T_J range	-45 ~ +150	°C

FEATURES

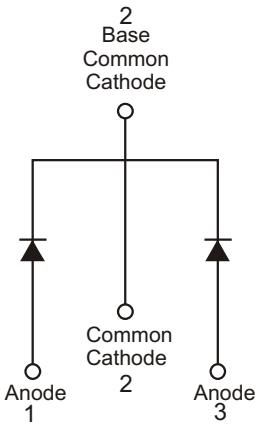
- **High junction temperature capability**
- **Good trade off between leakage current and forward voltage drop**
- **Low leakage current**

TO-220AB

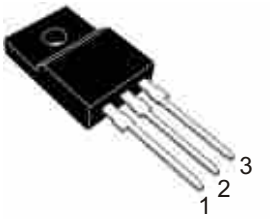


TO-3P

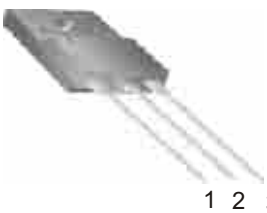


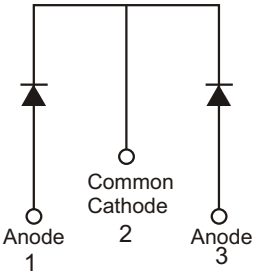


TO-220FPAB



TO-3PF





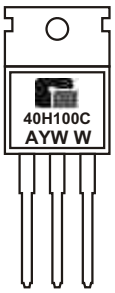
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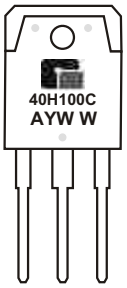
HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ MARKING INFORMATION

TO - 220AB



TO - 3P



A : Assembly Location
Y : Year
WW : Weekly

◆ ORDERING INFORMATION

Ordering Number	Package	Shipping
GMR40H100CTP3T	TO - 3P	30 Unit/ Tube
GMR40H100CTPF3T	TO - 3PF	30 Unit/ Tube
GMR40H100CTB3T	TO - 220AB	50 Unit/ Tube
GMR40H100CTBF3T	TO - 220FPAB	50 Unit/ 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	20 40	A
I_{FSM}	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per leg. (Non-Repetitive)		350	A
T_j, T_{stg}	Operating junction temperature and storage temperature		-45 to + 150	°C

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

Parameter	Symbol	TO-220AB	TO-220FPAB	TO-3P	TO-3PF	Unit
Typical thermal resistance per leg	RΘJC	0.75	3.2	0.85	1.10	°C/W

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

Parameter			Symbol	Value	Unit
Maximum instantaneous forward voltage per leg (Note 1)	I_F = 20A, I_F = 20A,	T_C = 25°C T_C = 125°C	V_F	0.80 0.73	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

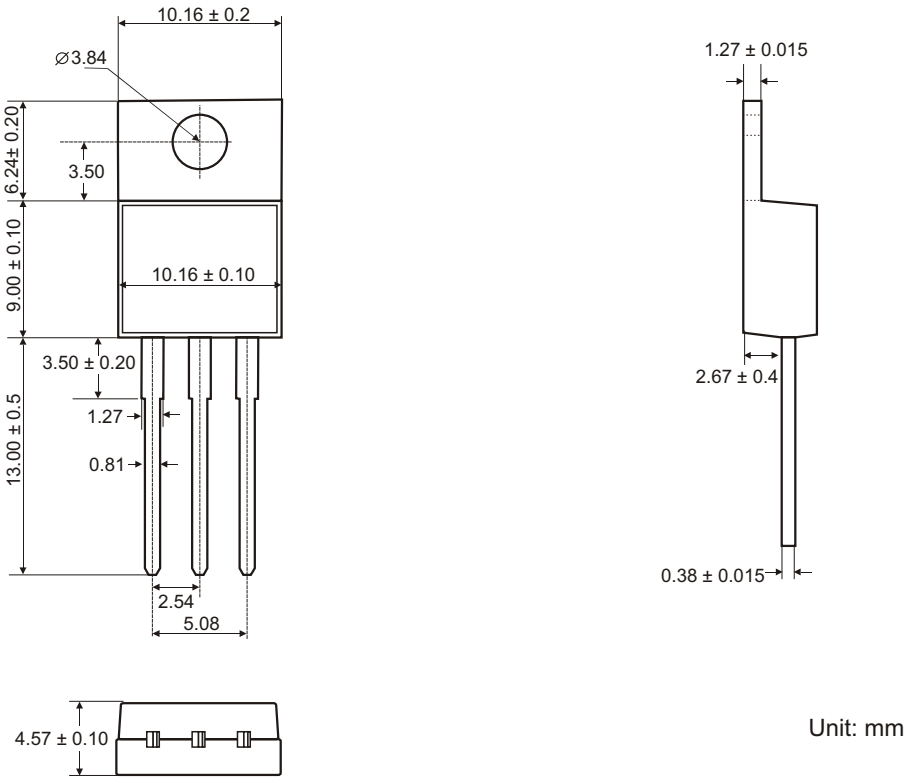
Note 1: Pulse Test: Pulse Width= 300μs, Duty Cycle ≤2.0%

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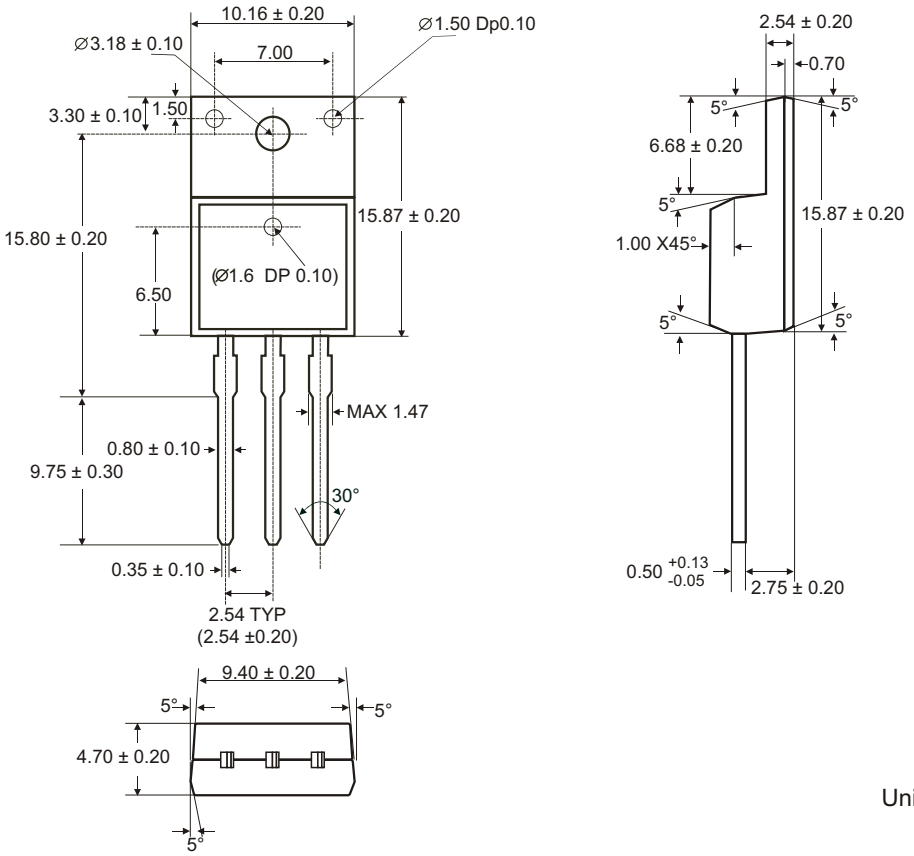
HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ TO-220AB PACKAGE OUTLINE DIMENSIONS



Unit: mm

◆ TO-220FPAB PACKAGE OUTLINE DIMENSIONS



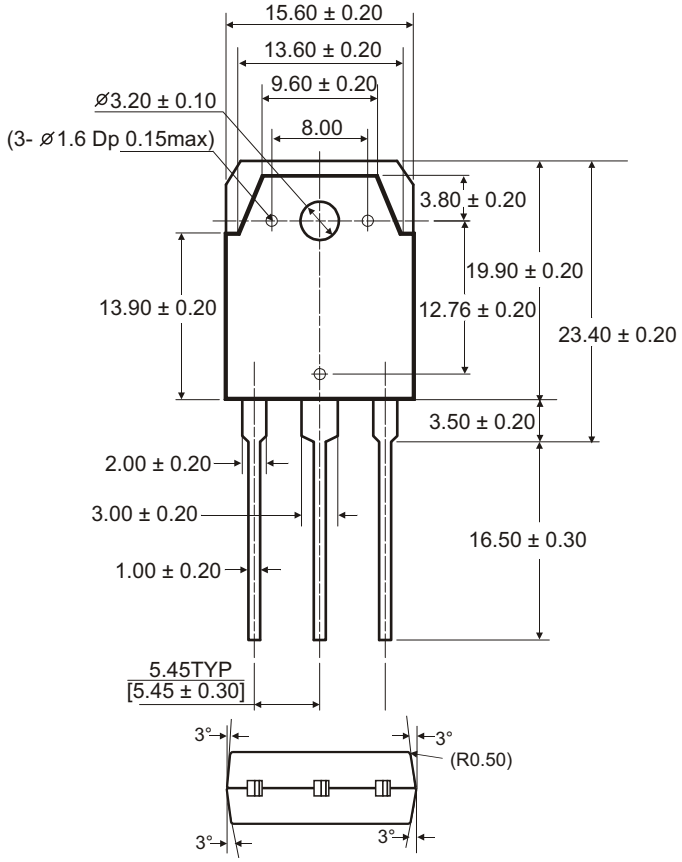
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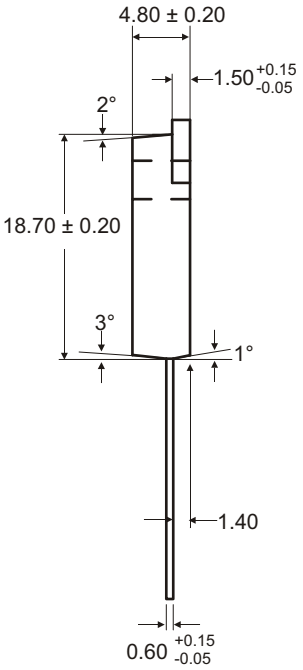
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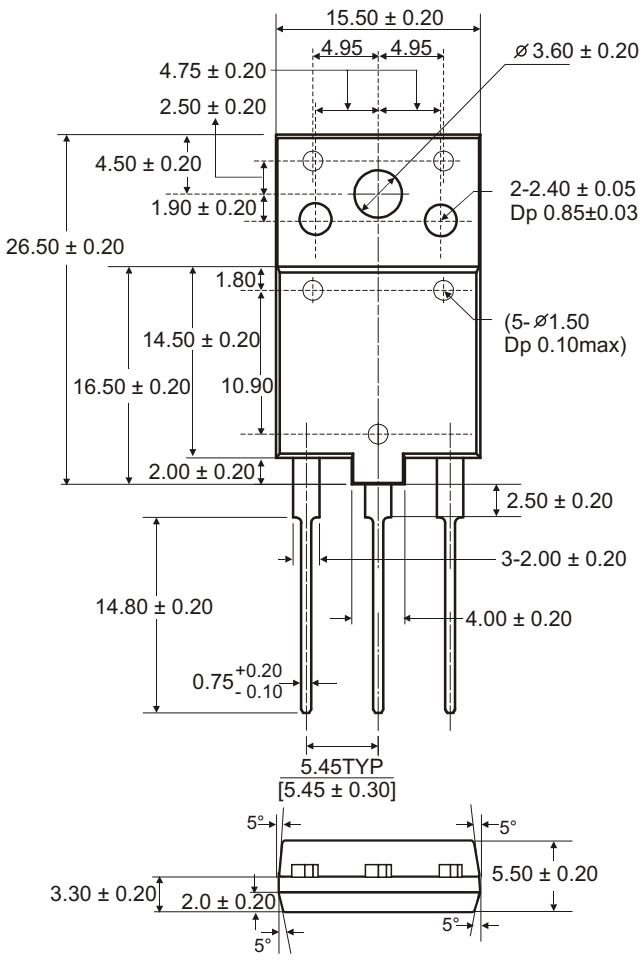
◆ TO-3P PACKAGE OUTLINE DIMENSIONS

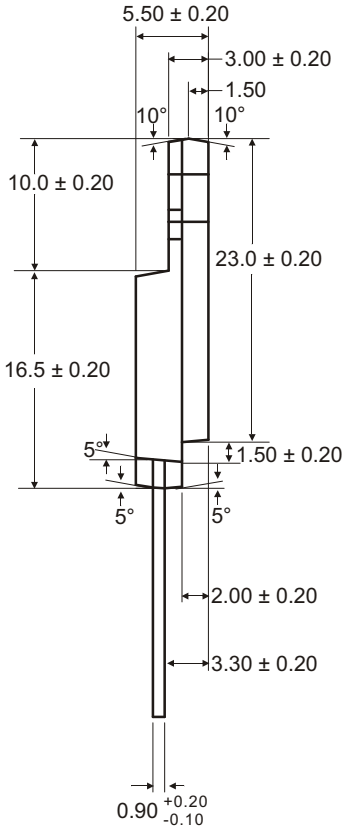


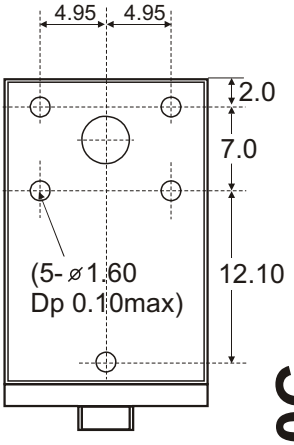


Unit: mm

◆ TO-3PF PACKAGE OUTLINE DIMENSIONS

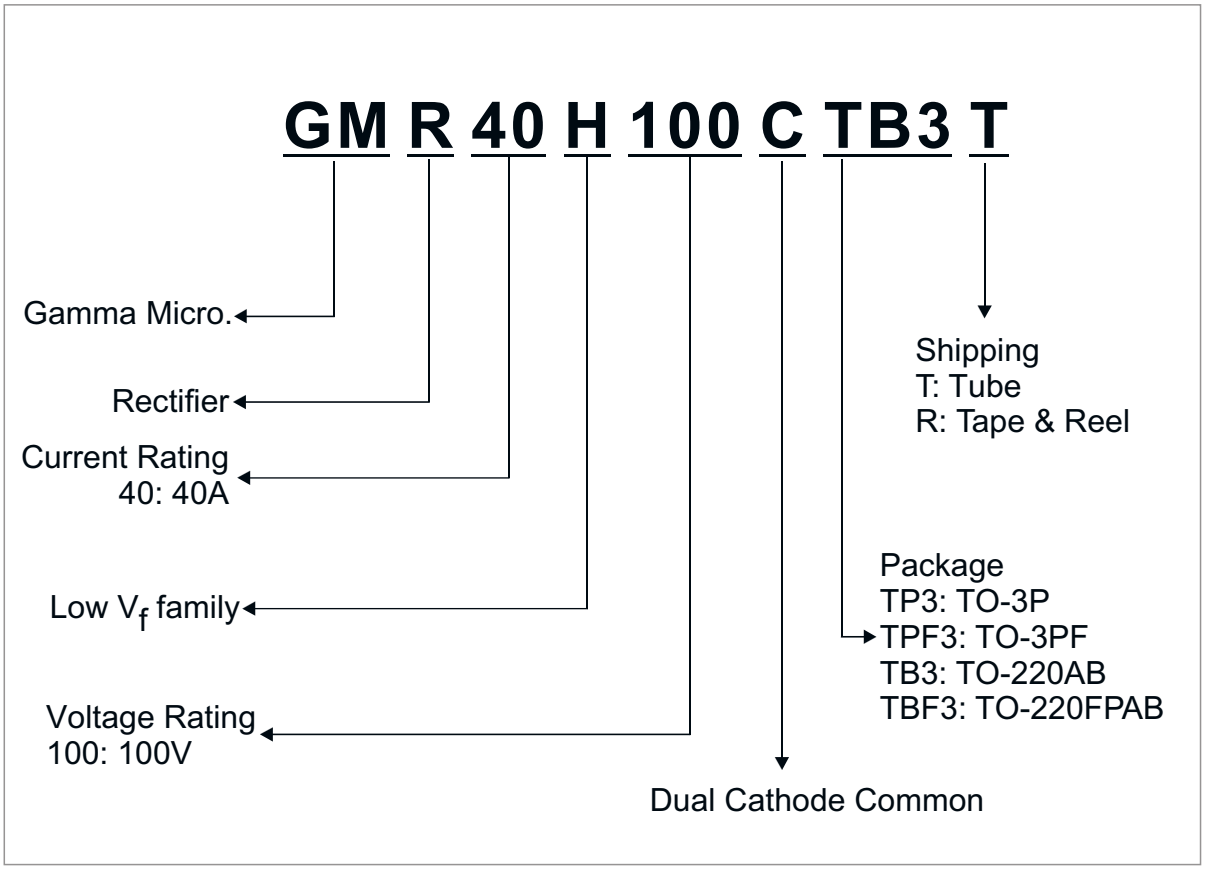






Unit: mm

◆ ORDERING NUMBER



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