GAMMA MICROELECTRONICS

GMR30H125C

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

DESCRIPTION

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

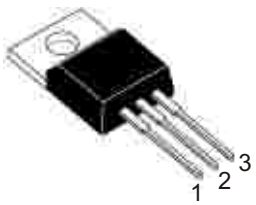
Major Ratings and Characteristics

Characteristics	Values	Unit
$I_{F(AV)}$ Rectangular waveform	2 X 15	A
V_{RRM}	125	V
V_F @15 Apk, T_C = 125°C (per leg)	0.65	V
T_J range	-45 ~ +150	°C

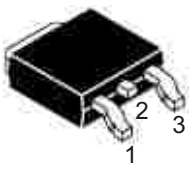
FEATURES

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

TO-220AB

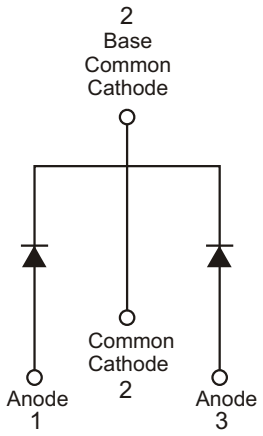


TO-263-2(D²PAK)

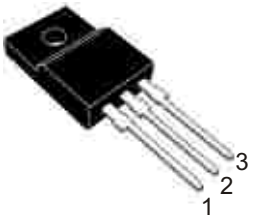


TO-3P

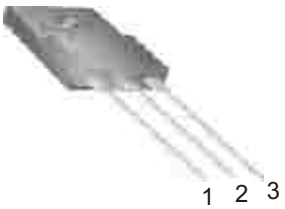


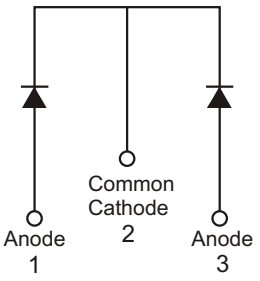


TO-220FPAB



TO-3PF





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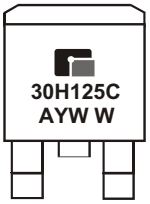
HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ MARKING INFORMATION

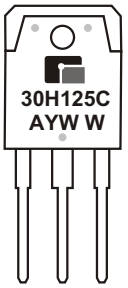
TO - 220AB



TO-263-2 (D^2PAK)



TO - 3P



A : Assembly Location
Y : Year
WW : Weekly

◆ ORDERING INFORMATION

Ordering Number	Package	Shipping
GMR30H125CTA3T	TO - 263-2	50 Unit/ Tube
GMR30H125CTA3R	TO - 263-2	800 Unit/ Tape & Reel
GMR30H125CTB3T	TO - 220AB	50 Unit/ Tube
GMR30H125CTBF3T	TO - 220FPAB	50 Unit/ Tube
GMR30H125CTP3T	TO - 3P	30 Unit/ Tube
GMR30H125CTPF3T	TO - 3PF	30 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		125	V
$I_{F(AV)}$	Maximum average forward rectified current	per diode per device	15 30	A
I_{FSM}	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per leg. (Non-Repetitive)		275	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	TO-3P	TO-3PF	Unit
Typical thermal resistance per leg	RΘJC	1.7	3.5	1.7	1.0	1.2	°C/W

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

Parameter			Symbol	Value	Unit
Maximum instantaneous forward voltage per leg (Note 1)	I_F = 15A,	T_C = 25°C	V_F	0.80	V
	I_F = 15A,	T_C = 125°C		0.65	
	I_F = 30A,	T_C = 25°C		-	
	I_F = 30A,	T_C = 125°C		-	
Maximum reverse current per leg at working peak reverse voltage (Note 1)		T_J = 25°C	I_R	10	μA
		T_J = 125°C		10	mA

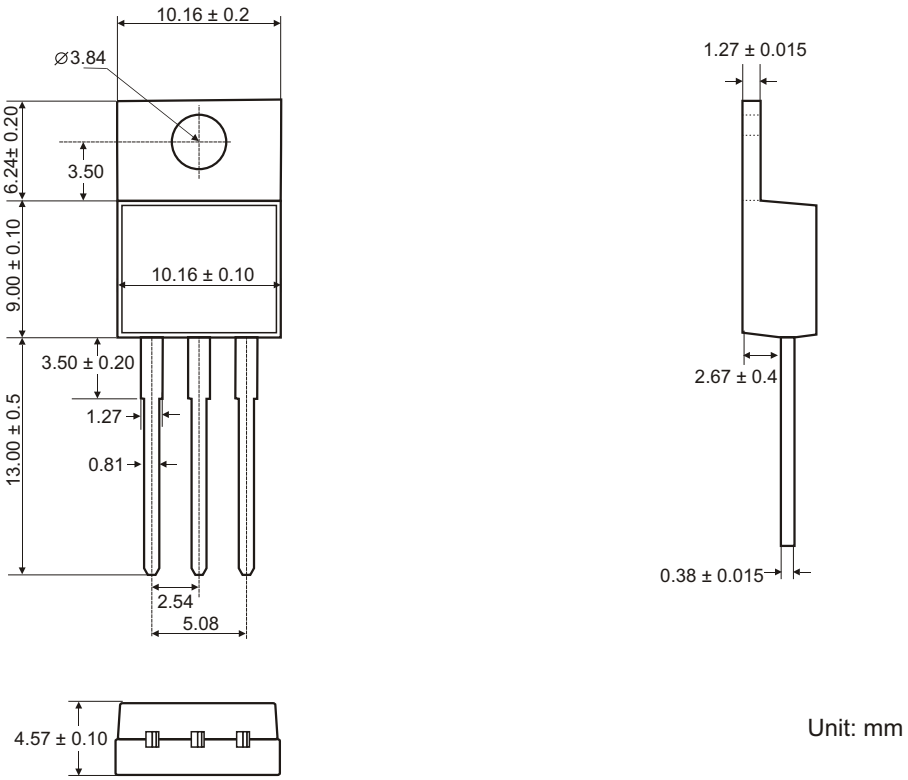
Note 1: Pulse Test: Pulse Width= 300μs, Duty Cycle ≤2.0%

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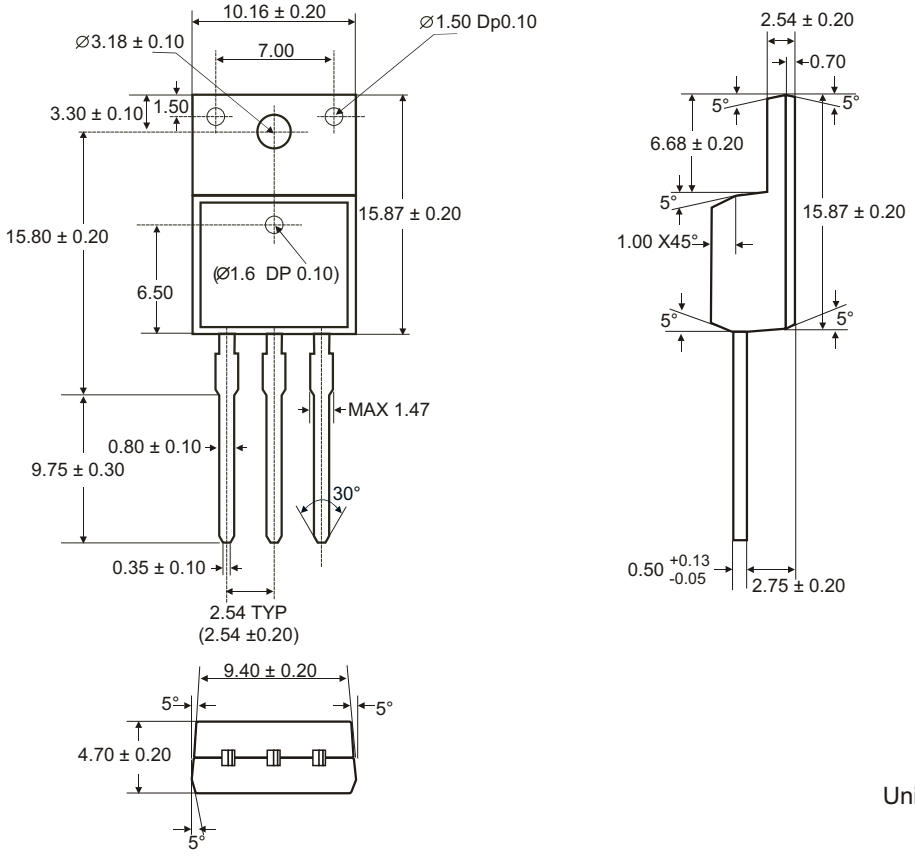
HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ TO-220AB PACKAGE OUTLINE DIMENSIONS



Unit: mm

◆ TO-220FPAB PACKAGE OUTLINE DIMENSIONS



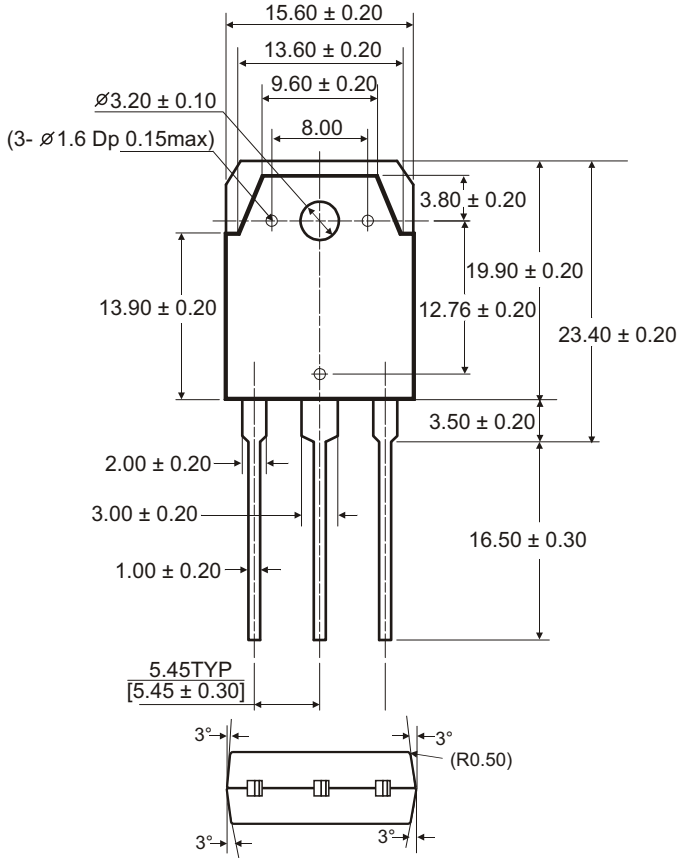
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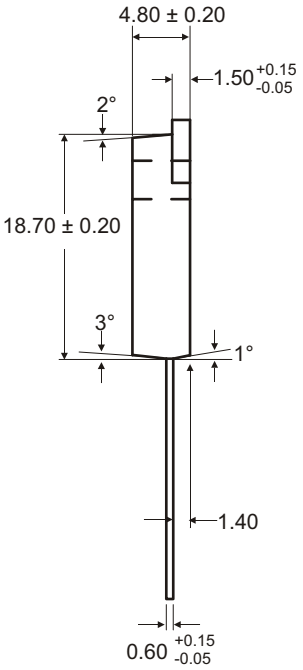
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HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

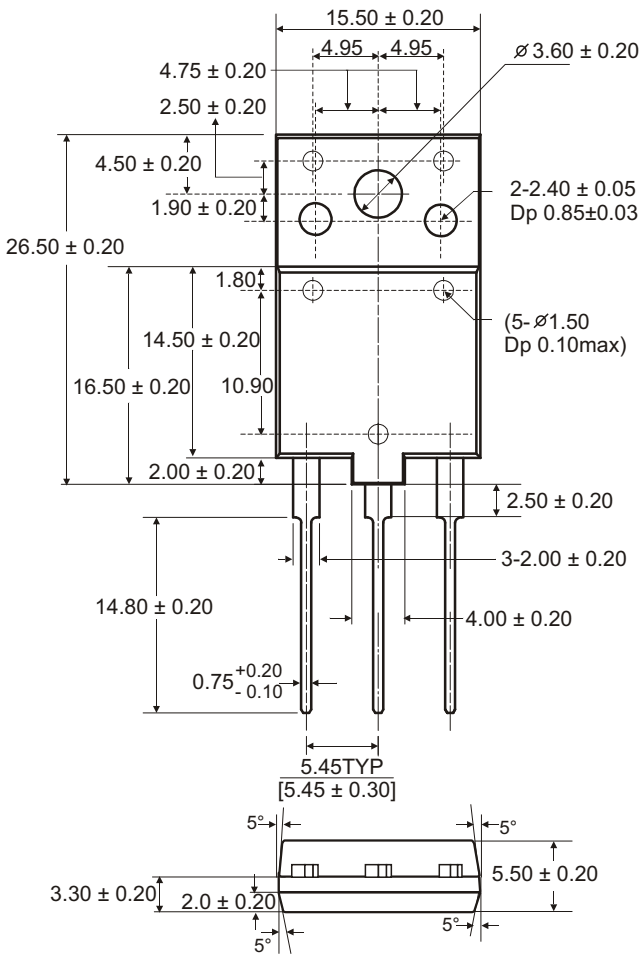
◆ TO-3P PACKAGE OUTLINE DIMENSIONS

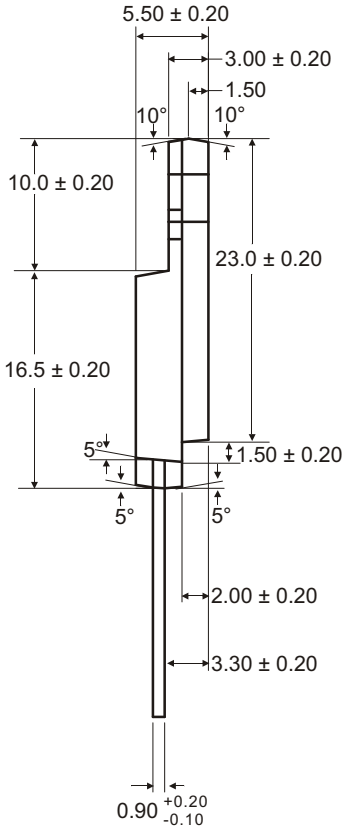


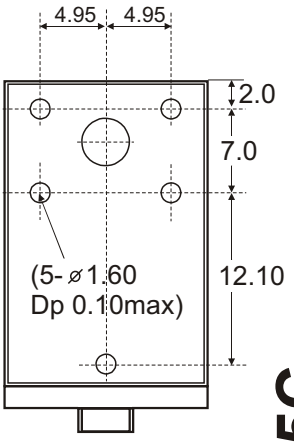


Unit: mm

◆ TO-3PF PACKAGE OUTLINE DIMENSIONS







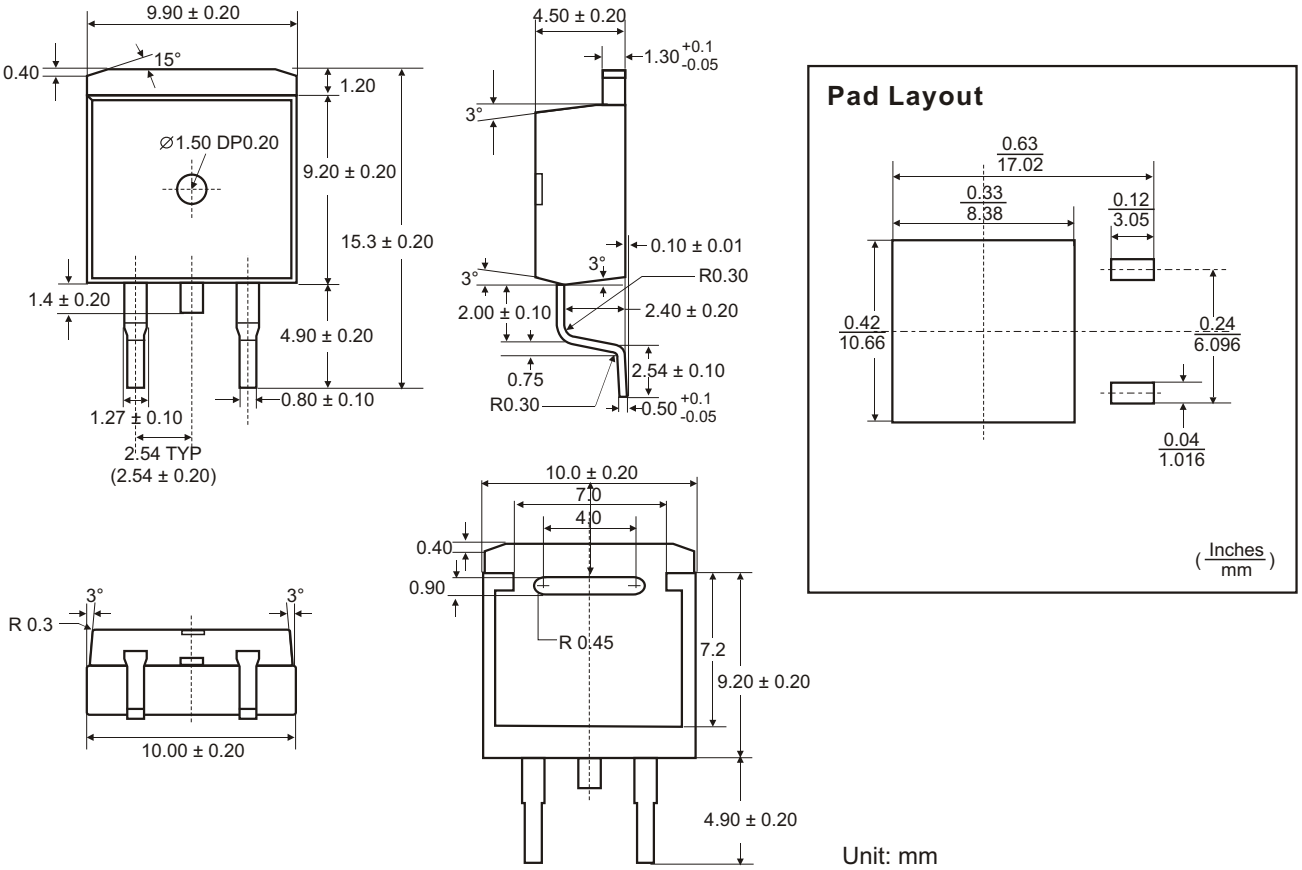
Unit: mm

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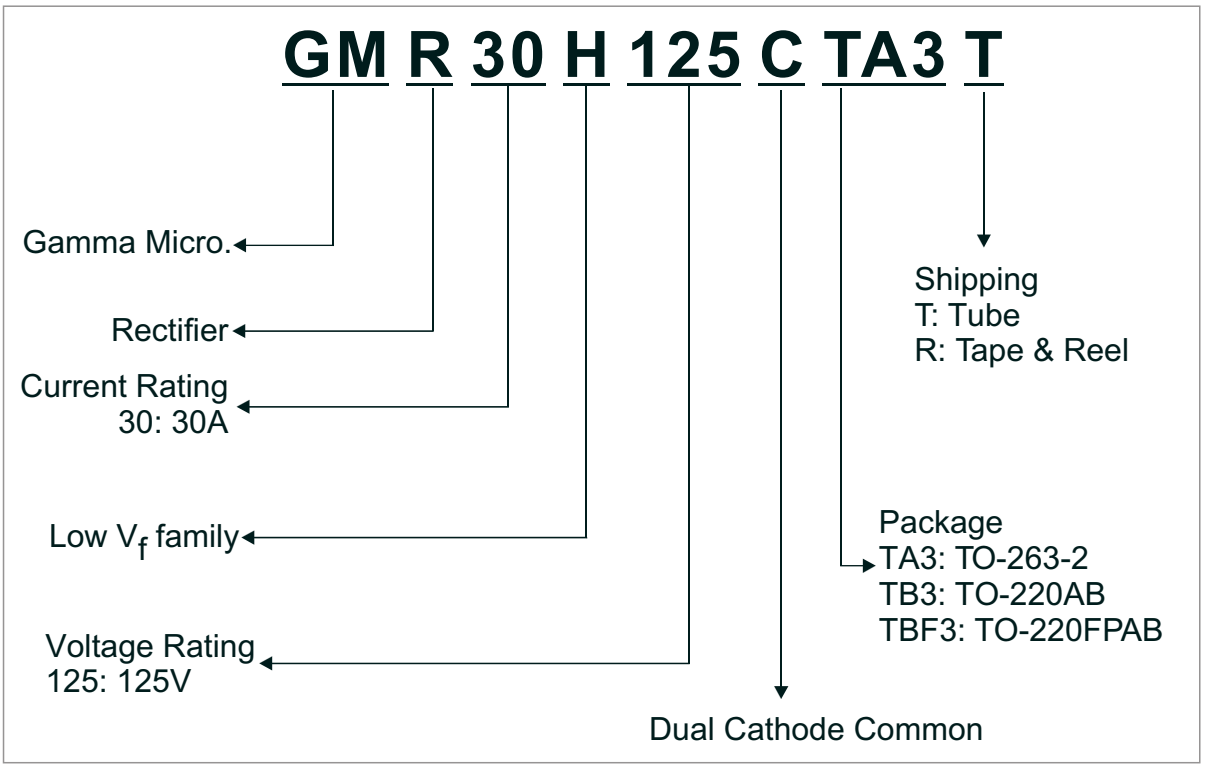
GMR30H125C

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ TO-263-2 PACKAGE OUTLINE DIMENSIONS



◆ ORDERING NUMBER



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