

DESCRIPTION

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

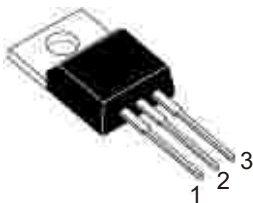
Major Ratings and Characteristics

Characteristics	Values	Unit
$I_{F(AV)}$ Rectangular waveform	2 X 10	A
V_{RRM}	125	V
V_F @10 Apk, $T_C = 125^\circ\text{C}$ (per leg)	0.68	V
T_J range	-45 ~ +150	$^\circ\text{C}$

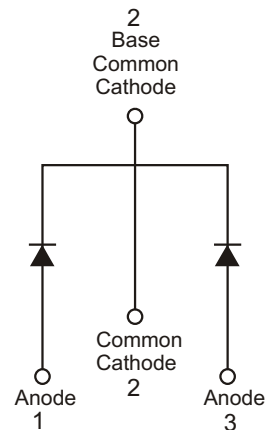
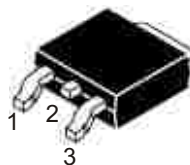
FEATURES

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

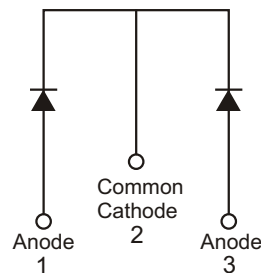
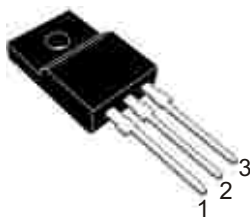
TO-220AB



TO-263-2(D²PAK)



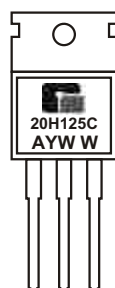
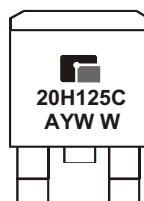
TO-220FPAB



HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ MARKING INFORMATION

TO - 220AB

TO-263-2 (D²PAK)

A : Assembly Location
 Y : Year
 WW : Weekly

◆ ORDERING INFORMATION

Ordering Number	Package	Shipping
GMR20H125CTA3T	TO - 263-2	50 Unit/ Tube
GMR20H125CTA3R	TO - 263-2	800 Unit/ Tape & Reel
GMR20H125CTB3T	TO - 220AB	50 Unit/ Tube
GMR20H125CTBF3T	TO - 220FPAB	50 Unit/ Tube

* For detail Ordering Number identification, please see last page.

◆ ABSOLUTE RATINGS ($T_C = 25^{\circ}\text{C}$)

Symbol	Parameter		Value	Unit
V_{RRM}	Repetitive peak reverse voltage		125	V
$I_{F(AV)}$	Maximum average forward rectified current	per diode per device	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	$^{\circ}\text{C}$

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ **Thermal Characteristics** ($T_C = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	TO-263-2	TO-220AB	TO-220FPAB	Unit
Typical thermal resistance per leg	$R_{\Theta JC}$	2.0	2.0	4.0	$^\circ\text{C/W}$

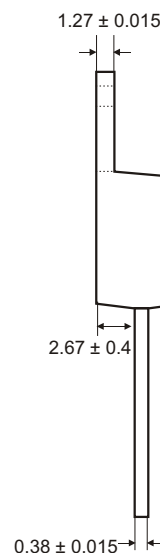
◆ **Electrical Characteristics** ($T_C = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum instantaneous forward voltage per leg (Note 1)	$I_F = 10\text{A}, T_C = 25^\circ\text{C}$	0.80	V
	$I_F = 10\text{A}, T_C = 125^\circ\text{C}$	0.68	
	$I_F = 20\text{A}, T_C = 25^\circ\text{C}$	-	
	$I_F = 20\text{A}, T_C = 125^\circ\text{C}$	-	
Maximum reverse current per leg at working peak reverse voltage (Note 1)	$T_J = 25^\circ\text{C}$	10	μA
	$T_J = 125^\circ\text{C}$	10	mA

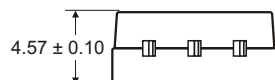
Note 1: Pulse Test: Pulse Width= 300 μs , Duty Cycle $\leq 2.0\%$

Technical drawing of a mechanical part with the following dimensions:

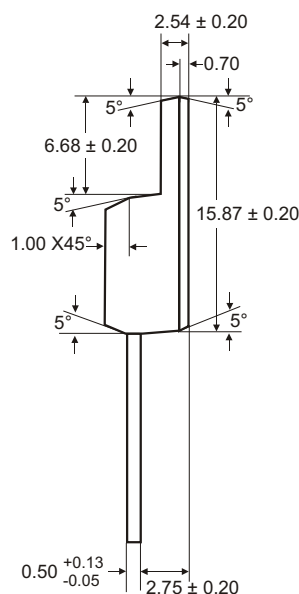
- Top horizontal dimension: 10.16 ± 0.2
- Top circular feature: $\varnothing 3.84$
- Distance from top edge to center of circular feature: 3.50
- Distance from top edge to start of rectangular section: 6.24 ± 0.20
- Height of rectangular section: 9.00 ± 0.10
- Width of rectangular section: 10.16 ± 0.10
- Distance from top edge to start of vertical section: 13.00 ± 0.5
- Height of vertical section: 3.50 ± 0.20
- Horizontal distance from left edge to center of vertical section: 1.27
- Horizontal distance from left edge to center of vertical section: 0.81
- Horizontal distance between vertical sections: 2.54
- Horizontal distance between vertical sections: 5.08



Unit: mm



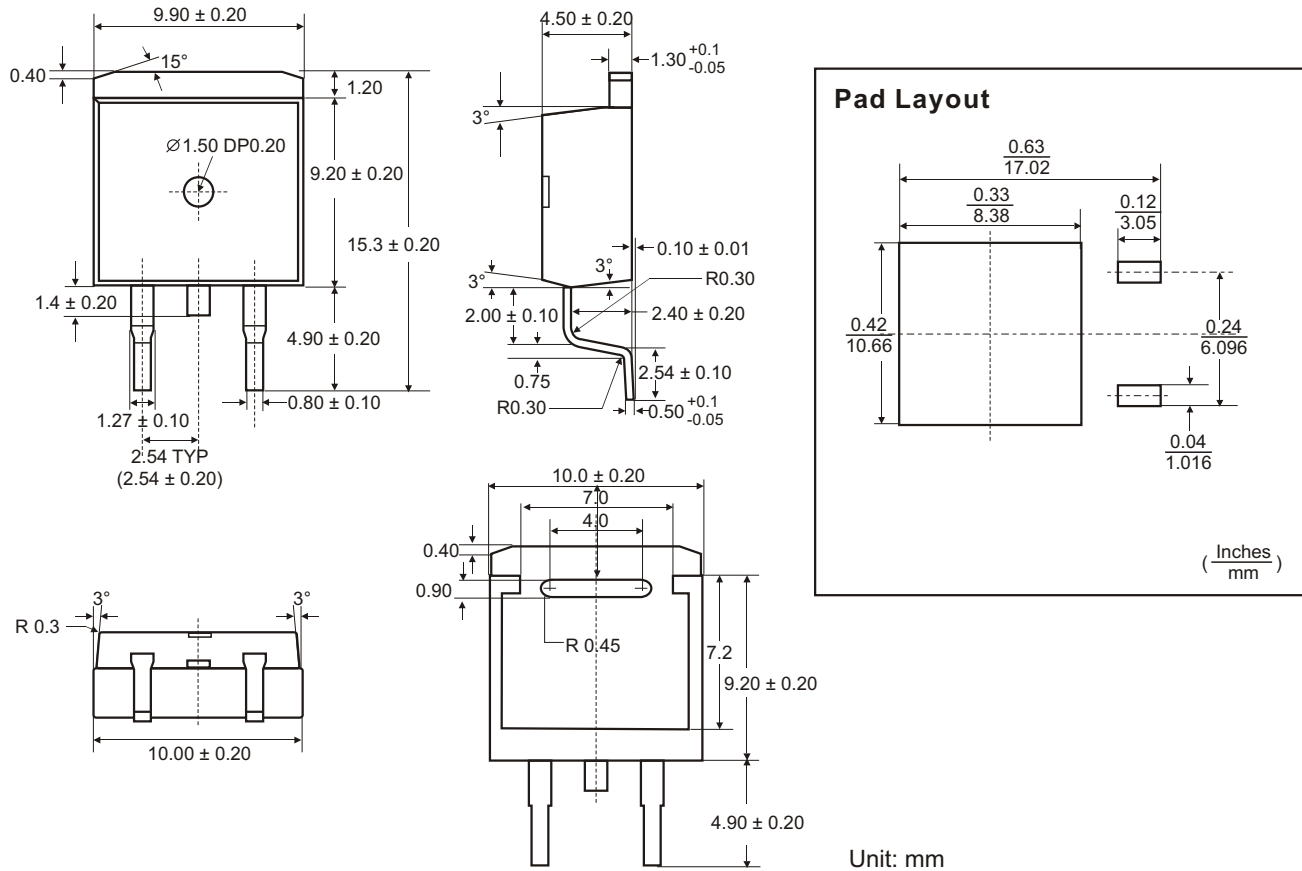
Technical drawing of a 3-pin connector with dimensions in millimeters. The drawing shows a top view and a side view. The top view dimensions are: overall width 10.16 ± 0.20 , distance between pin centers 7.00 , pin diameter $\varnothing 1.50$ Dp0.10, distance from top edge to pin center 3.30 ± 0.10 , and distance from top edge to the bottom of the connector body 15.87 ± 0.20 . The side view dimensions are: overall height 15.80 ± 0.20 , distance from top edge to the bottom of the connector body 15.87 ± 0.20 , distance from top edge to the bottom of the connector body 6.50 , distance from top edge to the bottom of the connector body 9.75 ± 0.30 , distance from top edge to the bottom of the connector body 0.80 ± 0.10 , and distance from top edge to the bottom of the connector body 0.35 ± 0.10 . The bottom view shows three pins with a diameter of 2.54 TYP (2.54 ± 0.20) and a taper angle of 30° . The maximum length of the pins is $\text{MAX } 1.47$.



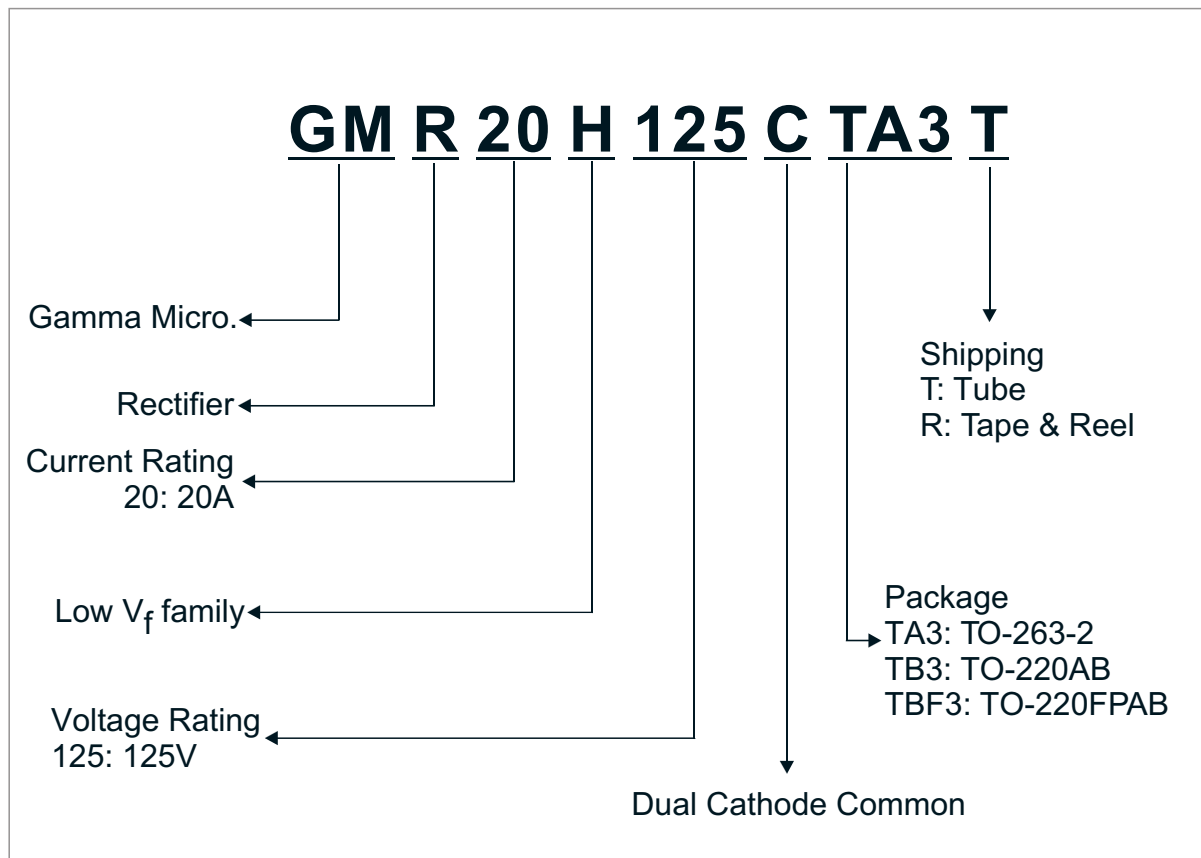
Unit: mm

HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ TO-263-2 PACKAGE OUTLINE DIMENSIONS



◆ ORDERING NUMBER



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