

DESCRIPTION

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

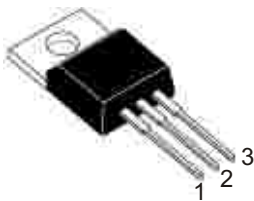
Major Ratings and Characteristics

| Characteristics | Values | Unit |
|--|------------|------------------|
| $I_{F(AV)}$ Rectangular waveform | 2 X 5 | A |
| V_{RRM} | 150 | V |
| V_F @ 5 Apk, $T_C = 125^\circ\text{C}$ (per leg) | 0.75 | V |
| T_J range | -45 ~ +150 | $^\circ\text{C}$ |

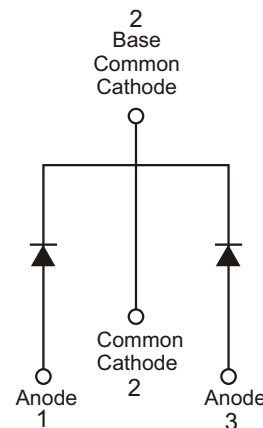
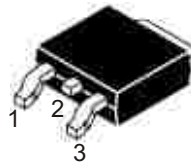
FEATURES

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

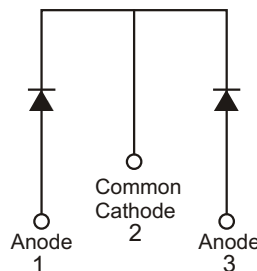
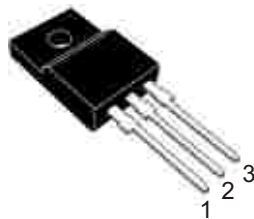
TO-220AB



TO-263-2(D²PAK)



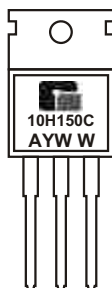
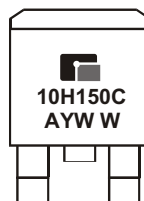
TO-220FPAB



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 |
|-----------------|--------------|------------------------|
| GMR10H150CTA3T | TO - 263-2 | 50 Units/ Tube |
| GMR10H150CTA3R | TO - 263-2 | 800 Units/ Tape & Reel |
| GMR10H150CTB3T | TO - 220AB | 50 Units/ Tube |
| GMR10H150CTBF3T | TO - 220FPAB | 50 Units/ 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 | 150 | V |
| $I_{F(AV)}$ | Maximum average forward rectified current | 5 10 | A |
| I_{FSM} | Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per leg. (Non-Repetitive) | 160 | 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-220AB | TO-220FPAB | TO-263-2 | Unit |
|------------------------------------|-----------------|----------|------------|----------|--------------------|
| Typical thermal resistance per leg | $R_{\theta JC}$ | 2.4 | 4.2 | 2.4 | $^\circ\text{C/W}$ |

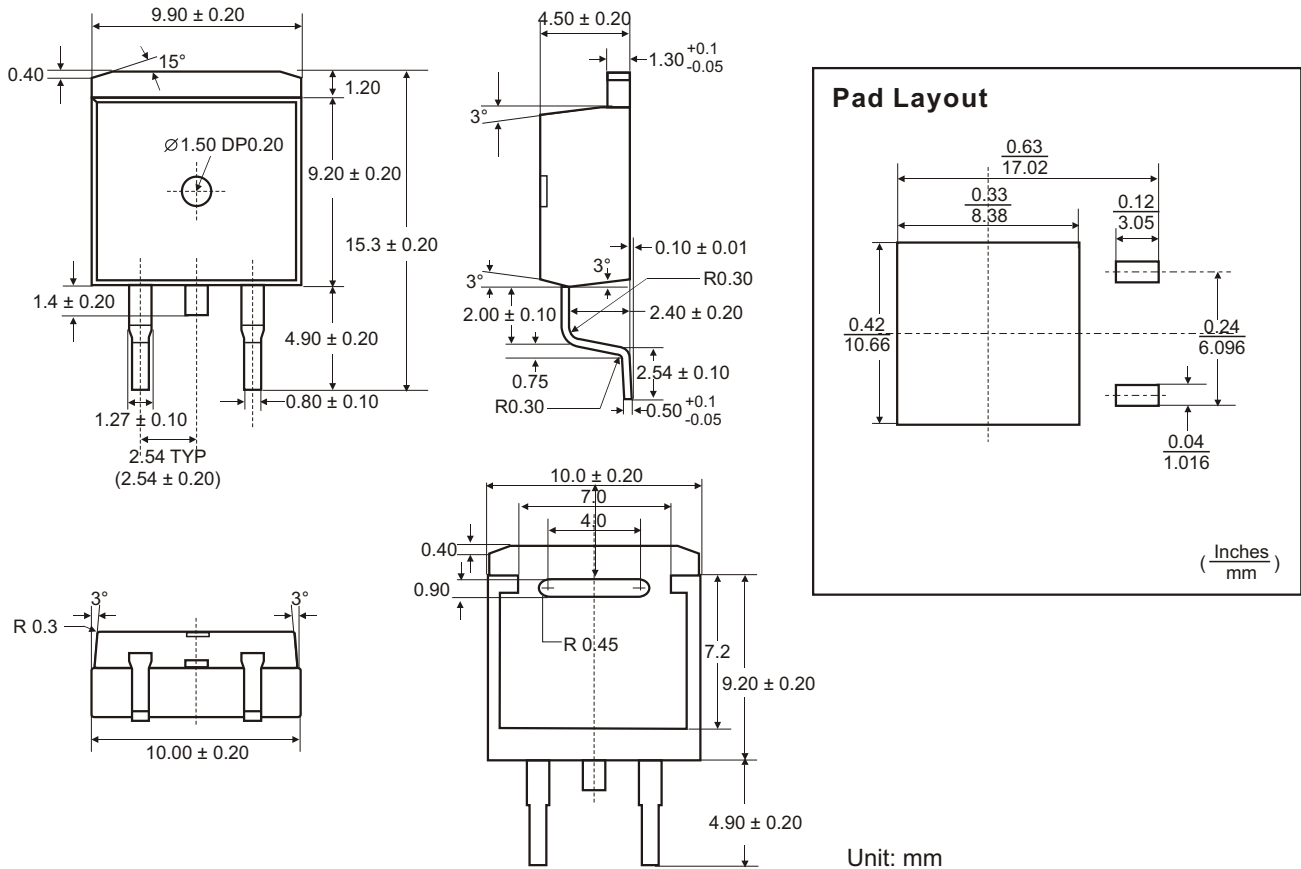
◆ **Electrical Characteristics** ($T_C = 25^\circ\text{C}$ unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|--|--------|--|------|
| Maximum instantaneous forward voltage per leg (Note 1) | V_F | $I_F = 5.0\text{A}, T_C = 25^\circ\text{C}$ | 0.85 |
| | | $I_F = 5.0\text{A}, T_C = 125^\circ\text{C}$ | 0.75 |
| | | $I_F = 10\text{A}, T_C = 25^\circ\text{C}$ | - |
| | | $I_F = 10\text{A}, T_C = 125^\circ\text{C}$ | - |
| Maximum reverse current per leg at working peak reverse voltage (Note 1) | I_R | $T_J = 25^\circ\text{C}$ | 5.0 |
| | | $T_J = 125^\circ\text{C}$ | 5.0 |

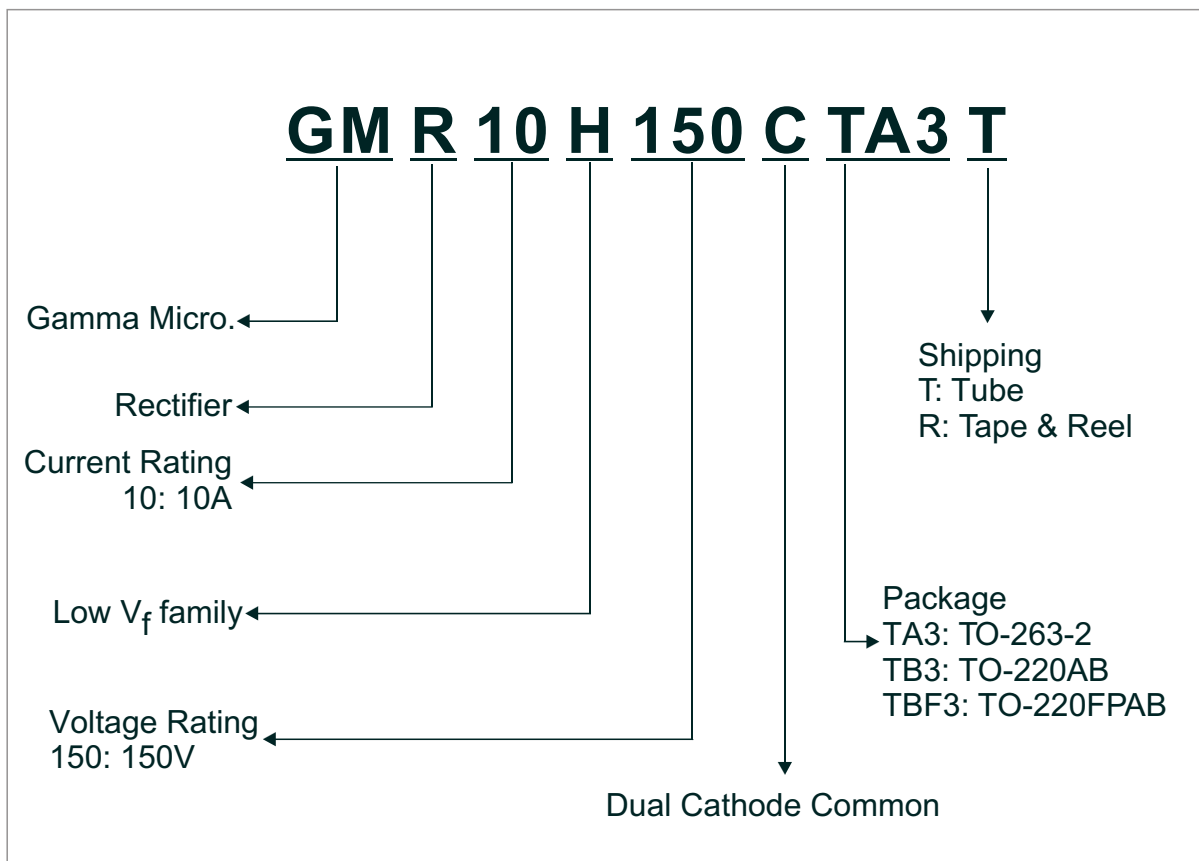
Note 1: Pulse Test: Pulse Width= 300 μs , Duty Cycle $\leq 2.0\%$



HIGH VOLTAGE POWER SCHOTTKY RECTIFIER

◆ TO-263-2 PACKAGE OUTLINE DIMENSIONS



◆ ORDERING NUMBER



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