

## DESCRIPTION

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

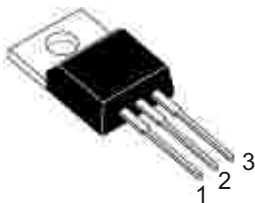
## Major Ratings and Characteristics

Characteristics	Values	Unit
$I_{F(AV)}$ Rectangular waveform	2 X 10	A
$V_{RRM}$	150	V
$V_F$ @10 Apk, $T_C = 125^\circ\text{C}$ (per leg)	0.69	V
$T_J$ range	-45 ~ +150	$^\circ\text{C}$

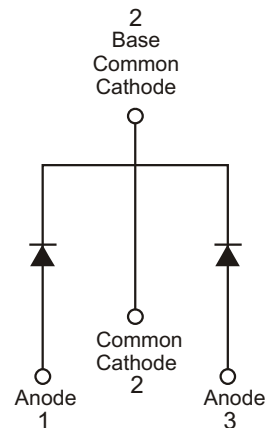
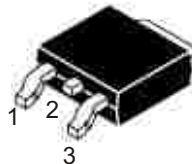
## FEATURES

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

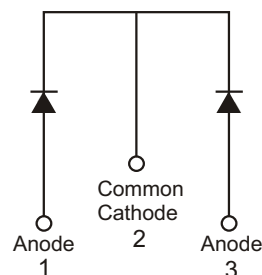
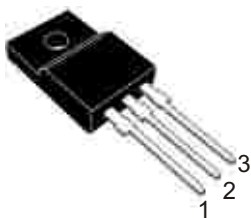
TO-220AB



TO-263-2(D<sup>2</sup>PAK)



TO-220FPAB

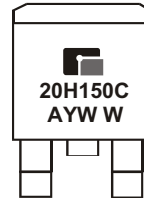


### ◆ MARKING INFORMATION

TO - 220AB



TO-263-2 (D<sup>2</sup>PAK)



A : Assembly Location  
 Y : Year  
 WW : Weekly

### ◆ ORDERING INFORMATION

Ordering Number	Package	Shipping
GMR20H150CTA3T	TO - 263-2	50 Unit/ Tube
GMR20H150CTA3R	TO - 263-2	800 Unit/ Tape & Reel
GMR20H150CTB3T	TO - 220AB	50 Unit/ Tube
GMR20H150CTBF3T	TO - 220FPAB	50 Unit/ Tube

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

### ◆ ABSOLUTE RATINGS (T<sub>C</sub> = 25°C)

Symbol	Parameter	Value	Unit
V <sub>RRM</sub>	Repetitive peak reverse voltage	150	V
I <sub>F(AV)</sub>	Maximum average forward rectified current	per diode 10 per device 20	A
I <sub>FSM</sub>	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per leg. (Non-Repetitive)	200	A
T <sub>j</sub> , T <sub>stg</sub>	Operating junction temperature and storage temperature	-45 to + 150	°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	$R_{\Theta JC}$	2.0	4.0	2.0	$^\circ\text{C/W}$

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



Parameter	Symbol	Value	Unit
Maximum instantaneous forward voltage per leg (Note 1)	$I_F = 10\text{A}, T_C = 25^\circ\text{C}$	0.83	V
	$I_F = 10\text{A}, T_C = 125^\circ\text{C}$	0.69	
	$I_F = 20\text{A}, T_C = 25^\circ\text{C}$	-	
	$I_F = 20\text{A}, T_C = 125^\circ\text{C}$	-	
Maximum reverse current per leg at working peak reverse voltage (Note 1)	$T_J = 25^\circ\text{C}$	10	$\mu\text{A}$
	$T_J = 125^\circ\text{C}$	10	mA

Note 1: Pulse Test: Pulse Width= 300 $\mu\text{s}$ , Duty Cycle  $\leq 2.0\%$





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