

<u>HTR10150CT, HTRF10150CT</u> <u>HTRI10150CT, HTRB10150CT</u>

HY ELECTRONIC (CAYMAN) LIMITED	www.hy	/group.com.tw	Low VF=0.54V at IF=2.5A			
SCHOTTKY BARRIER RECTIFIER	c	REVERSE VOLTAG	E 150	Volts		
SCHUTTET BARKIER RECHTER	3	FORWARD CURREN	IT 10 /	Amperes		
		TO-220AB	ITO-220AB			
FEATURES		~				
Metal of silicon rectifier , majority carrier conduction						
Trench Schottky Technology				HALOGE		
●Low power loss, high efficiency				FREE		
 High current capability, low VF 						
 High surge capacity 			3 PIN10 PIN2	^{2³} RoHS		
 Plastic package has UL flammability 				COMPLIAN		
classification 94V-0		HTR10150CT	HTRF10150	СТ		
●For use in low voltage,high frequency inverters,free				-		
wheeling, switching power supplies, DC-DC		TO-263AB	TO-262AA			
converter, and polarity protection applications						
MECHANICAL DATA						
•Case: TO-220AB / ITO-220AB / TO-262AA / TO-263AB		ALC L				
Polarity: As marked on the body				N ₃		
• Weight: 0.08ounces,2.24 grams		PIN 2 O HEATSINK		120		
Mounting position :Any		HTRB10150CT	HTRI101500	:т		
MAXIMUM RATINGS AND ELECTRICAL C	HARACTE	ERISTICS				
Rating at 25°C ambient temperature unless otherwise speci	_					
Single phase, half wave ,60Hz, resistive or inductive load.						
For capacitive load, derate current by 20%						
· · · ·	INGS (T _A = 2	5 °C unless otherwise noted)				
CHARACTERISTICS	SYMBOL					
Maximum Recurrent Peak Reverse Voltage	Vrrm	150	V			
Maximum RMS Voltage	Vrms	106				
Maximum DC Blocking Voltage	VDC	150				
Maximum Average Forward Rectified Current (See Fig.1)		10		V		
Maximum Average Forward Rectified Current (Per Leg)	l(AV)	5		A		
Peak Forward Surge Current						
0. Orean Circula Half Circa Maria		90		Λ		

THERMAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)

Тур

150 (minimun)

0.68

0.54

0.94

0.61

80

-55 to +150

-55 to +175

50

13

323

Max

-

0.73

0.58

1.04

0.65

PARAMETER	SYMBOL	Гур				UNIT
		HTR10150CT	HTRF10150CT	HTRI10150CT	HTRB10150CT	UNIT
Thermal Resistance Per Diode (Note3)	RθJC	3.0	5.5	3.5	3.5	°C/W

IFSM

ТJ

TSTG

SYMBOL

 V_{BR}

 V_{F}

IR

Сл

IF=2.5A @TJ=25℃

IF=2.5A @TJ=125℃

IF=5A @TJ=25℃

IF=5A @TJ=125℃

ELECTRICAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)

NOTES:1.300us pulse width,2% duty cycle.

8.3ms Single Half Sine-Wave Super Imposed on Rated Load

Operating Temperature Range

Storage Temperature Range

Breakdown voltage per diode

Maximum DC Reverse Current

at Rated DC Bolcking Voltage

Typical Junction Capacitance (Note2)

Forward Voltage (Note1)

2.Measured at 1.0 MHz and applied reverse voltage of 5.0V DC.

@TJ=25℃

@TJ=125℃

PARAMETER / CONDITIONS

3. Thermal resistance junction to case.

А

°C

°C

UNIT

V

V

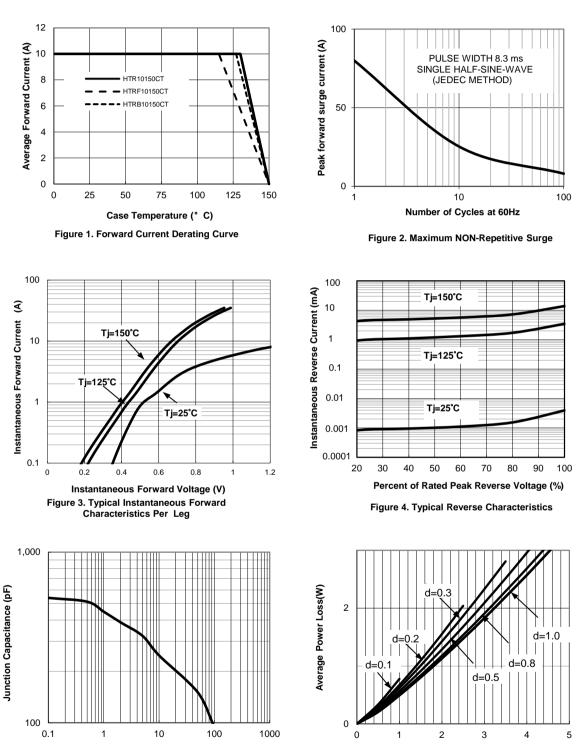
uA

mΑ

pF

RATING AND CHARACTERTIC CURVES

HTR10150CT, HTRF10150CT HTR110150CT, HTRB10150CT



Average Forward Current(A) Figure 6. Forward Power Loss Characteristics

www.hygroup.com.tw

Reverse Voltage (V)

Figure 5. Typical Junction Capacitance

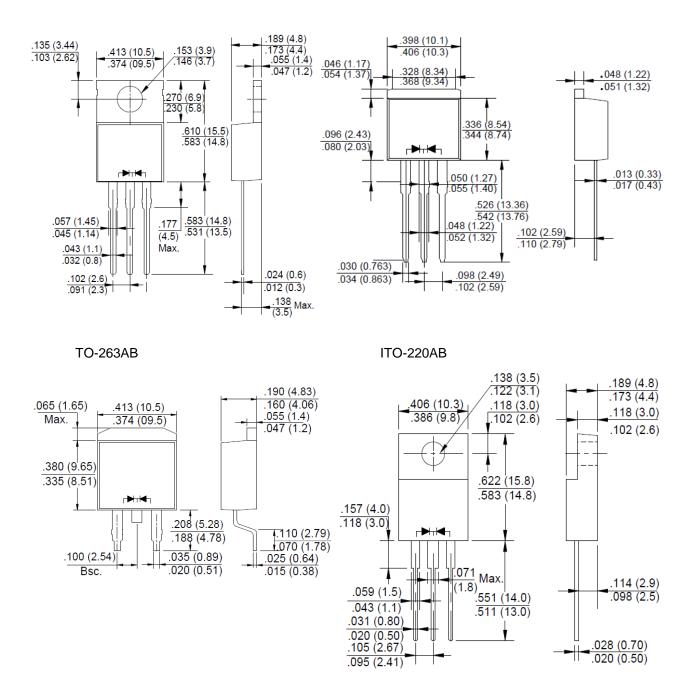
Rev.1, 1-Mar-2017

PACKAGE OUTLINE DIMENSIONS in millimeters

HTR10150CT, HTRF10150CT HTR110150CT, HTRB10150CT HУ

TO-220AB

TO-262AA





Disclaimer

ALL specifications and data are subject to bechanged without notice to improve reliability function or design or other reasons.

HY makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, HY disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on HY's knowledge of typical requirements that are often placed on HY products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.Product specifications do not expand or otherwise modify HY's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, HY products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the HY product could result in personal injury or death. Customers using or selling HY products not expressly indicated for use in such applications do so at their own risk. Please contact authorized HY personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of HY. Product names and markings noted herein may be trademarks of their respective owners.