

<u>HTR30I60CT, HTRF30I60CT</u> <u>HTRI30I60CT, HTRB30I60CT</u>

HY ELECTRONIC (CAYMAN) LIMITED	www.h	ygroup.com.tw	Ultra	Low VF=0.	3V at IF=7.5A
SCHOTTKY BARRIER RECTIFIERS		REVERSE VO	LTAGE	60	Volts
SCHOTTET BARRIER RECHPIERS		FORWARD CU	FORWARD CURRENT		Amperes
		TO-220AE	3	ITO-220AE	
FEATURES				A .	PO
 Metal of silicon rectifier , majority carrier conduction 				\mathcal{O}	
Trench Schottky Technology				× //	HALOGEN
●Low power loss, high efficiency				V	FREE
 High current capability, low VF 			///		3
●High surge capacity			23		² ¹ ² ^{RoHS}
Plastic package has UL flammability			1		COMPLIANT
classification 94V-0		HTR30160	СТ	HTRF3016	OCT
For use in low voltage, high frequency inverters, free					
wheeling, switching power supplies, DC-DC		TO-263AE	3	TO-262AA	
converter, and polarity protection applications					
MECHANICAL DATA			S		
●Case: TO-220AB / ITO-220AB / TO-262AA / TO-263AB			2		
●Polarity: As marked on the body			1	PIN1 O PIN2	23
●Weight: 0.08ounces,2.24 grams		PIN 2 O		PIN3 O	1 ~
Mounting position :Any		HTRB3016	OCT	HTRI30160	СТ

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

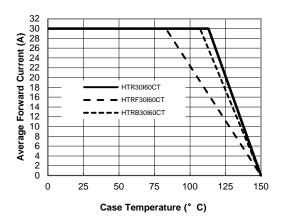
MAXIMUM RATIN	GS (T _A = 2	5 °C unless ot	herwise noted)			
CHARACTERISTICS	SYMBOL	HTR30I60CT, HTRF30I60CT, HTRI30I60CT, HTRB30I60CT			FRB30160CT	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	60				V
Maximum RMS Voltage	Vrms		4	2	V	
Maximum DC Blocking Voltage	Vdc	60				
Maximum Average Forward Rectified Current (See Fig.1) Maximum Average Forward Rectified Current (Per Leg)	I(AV)	30 15				
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	210				
Peak repetitive reverse current at tp = 2 µs, 1 kHz	I _{RRM}	1				А
Operating Temperature Range	ТJ	-55 to +150				°C
Storage Temperature Range	Тѕтс	-55 to +175				°C
ELECTRICAL CHARACT	ERISTICS	(T _A = 25 °C un	less otherwise	noted)		
PARAMETER / CONDITIONS	SYMBOL	Тур		Мах		UNIT
Breakdown voltage per diode	V _{BR}	60(minimun)		-		V
Forward Voltage (Note1) IF=7.5A @TJ=25℃ IF=7.5A @TJ=125℃ IF=15A @TJ=25℃ IF=15A @TJ=25℃	V _F	0. 0.	0.38 0.30 0.44 0.40		0.40 0.32 0.46 0.41	
Maximum DC Reverse Current @TJ=25°C at Rated DC Bolcking Voltage @TJ=125°C	lr	420 100				
Typical Junction Capacitance (Note2)	Сл	1392				pF
THERMAL CHARACTE	RISTICS (T _A = 25 °C unle	ess otherwise n	oted)		
PARAMETER	SYMBOL	Тур			UNIT	
		HTR30160CT	HTRF30I60CT	HTRI30I60CT	HTRB30I60CT	
Thermal Resistance Per Diode (Note3)	RθJC	3.0	5.5	3.5	3.5	°C/W

3. Thermal resistance junction to case.

RATING AND CHARACTERTIC CURVES

HTR30160CT, HTR130160CT, HTRF30160CT HTRB30160CT







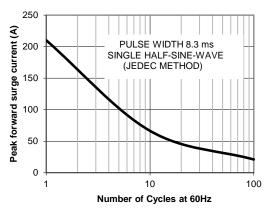
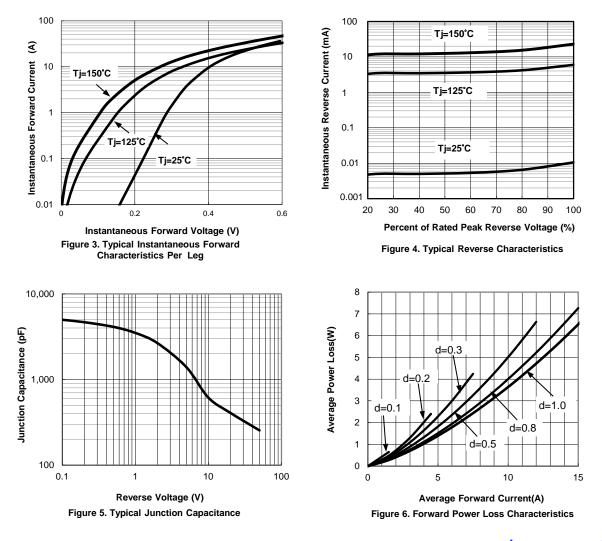


Figure 2. Maximum NON-Repetitive Surge



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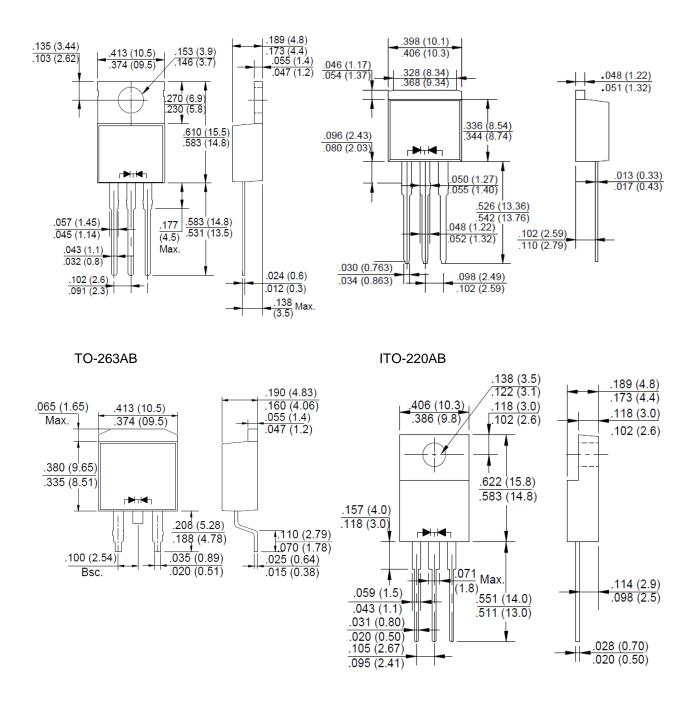
Rev.1, 1-Mar-2017

PACKAGE OUTLINE DIMENSIONS in millimeters

HTR30I60CT, HTRF30I60CT HTRI30I60CT, HTRB30I60CT HУ

TO-220AB

TO-262AA



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