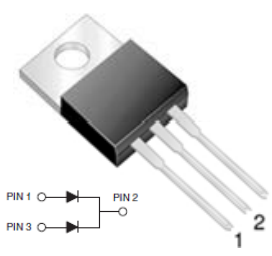
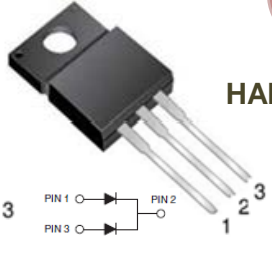

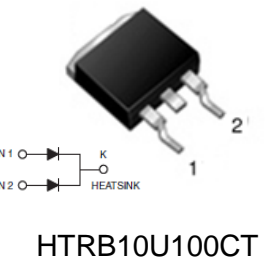
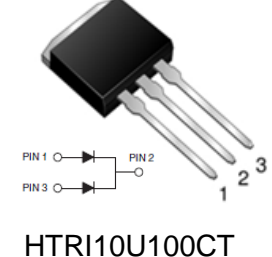




SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE	100	Volts
	FORWARD CURRENT	10	Amperes
FEATURES <ul style="list-style-type: none"> ●Metal of silicon rectifier , majority carrier conduction ●Trench Schottky Technology ●Low power loss, high efficiency ●High current capability, low VF ●High surge capacity ●Plastic package has UL flammability classification 94V-0 ●For use in low voltage,high frequency inverters,free wheeling,switching power supplies, DC-DC converter,and polarity protection applications MECHANICAL DATA <ul style="list-style-type: none"> ●Case: TO-220AB / ITO-220AB / TO-262AA / TO-263AB ●Polarity: As marked on the body ●Weight: 0.08ounces,2.24 grams ●Mounting position :Any 	TO-220AB  HTR10U100CT	ITO-220AB  HTRF10U100CT	 HALOGEN FREE RoHS COMPLIANT
	TO-263AB  HTRB10U100CT	TO-262AA  HTRI10U100CT	

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 RATINGS (T _A = 25 °C unless otherwise noted)						
CHARACTERISTICS	SYMBOL	HTR10U100CT, HTRF10U100CT, HTRI10U100CT, HTRB10U100CT		UNIT		
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100		V		
Maximum RMS Voltage	V _{RMS}	70		V		
Maximum DC Blocking Voltage	V _{DC}	100		V		
Maximum Average Forward Rectified Current (See Fig.1)	I _(AV)	10		A		
Maximum Average Forward Rectified Current (Per Leg)		5		A		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	100		A		
Peak repetitive reverse current at tp = 2 μs, 1 kHz	I _{RRM}	1		A		
Operating Temperature Range	T _J	-55 to +150		°C		
Storage Temperature Range	T _{STG}	-55 to +175		°C		
ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER / CONDITIONS	SYMBOL	Typ	Max	UNIT		
Breakdown voltage per diode	V _{BR}	110 (minimum)		V		
Forward Voltage (Note1)	V _F	IF=1.0A @TJ=25°C	0.43	0.46	V	
		IF=1.0A @TJ=125°C	0.33	0.35		
		IF=2.5A @TJ=25°C	0.50	0.53		
		IF=2.5A @TJ=125°C	0.44	0.47		
		IF=5A @TJ=25°C	0.60	0.64		
		IF=5A @TJ=125°C	0.56	0.59		
Maximum DC Reverse Current @TJ=25°C	I _R	70		uA		
at Rated DC Bolcking Voltage @TJ=125°C		20		mA		
Typical Junction Capacitance (Note2)	C _J	307		pF		
THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	Typ				UNIT
		HTR10U100CT	HTRF10U100CT	HTRI10U100CT	HTRB10U100CT	
Thermal Resistance Per Diode (Note3)	RθJC	3.0	5.5	3.5	3.5	°C/W

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

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

3.Thermal resistance junction to case.

RATING AND CHARACTERISTIC CURVES

HTR10U100CT, HTRF10U100CT

HTRI10U100CT, HTRB10U100CT

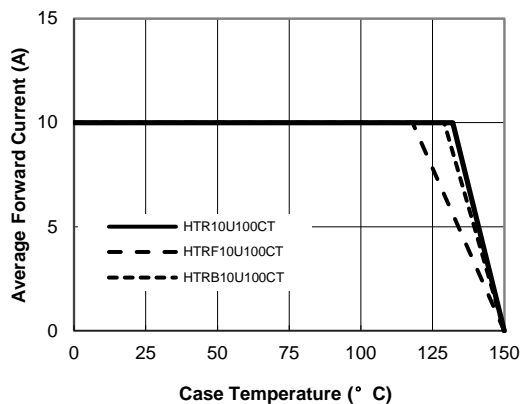


Figure 1. Forward Current Derating Curve

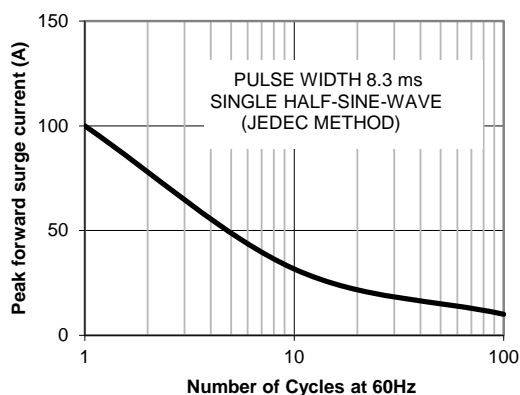


Figure 2. Maximum NON-Repetitive Surge

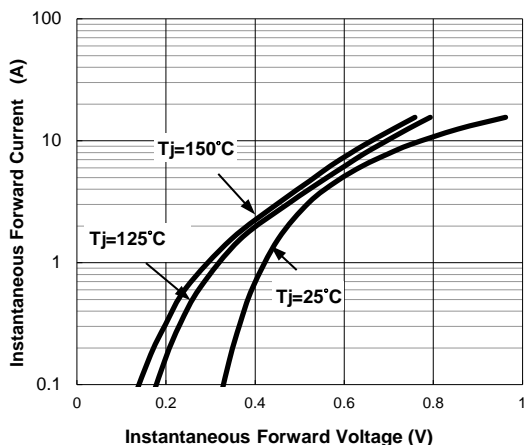


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

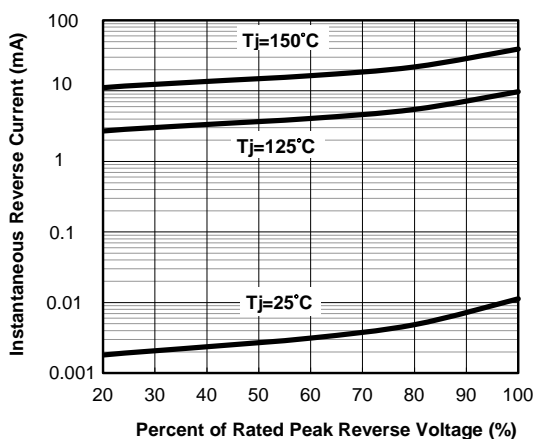


Figure 4. Typical Reverse Characteristics

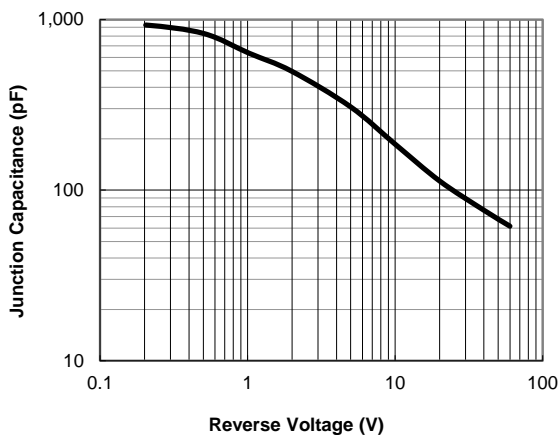


Figure 5. Typical Junction Capacitance

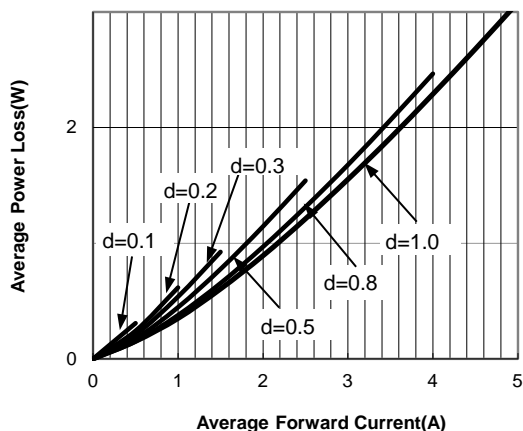


Figure 6. Forward Power Loss Characteristics

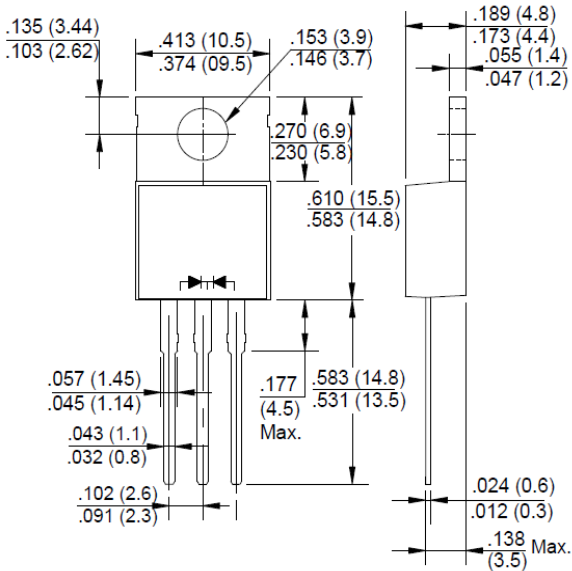
PACKAGE OUTLINE DIMENSIONS in millimeters

HTR10U100CT, HTRF10U100CT

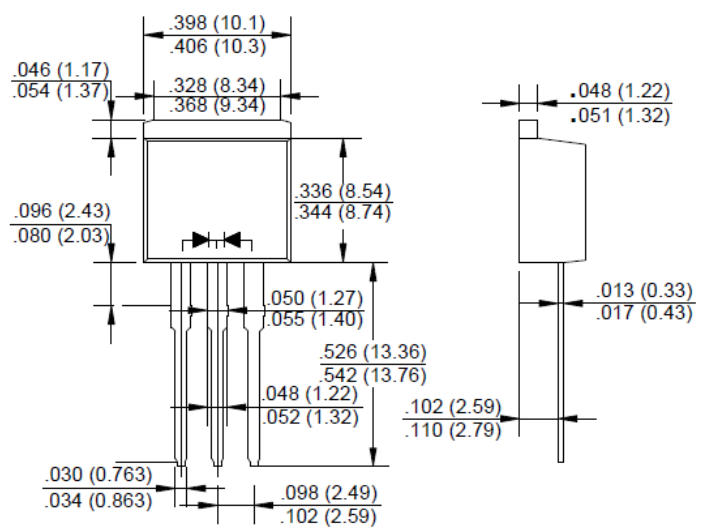
HTRI10U100CT, HTRB10U100CT



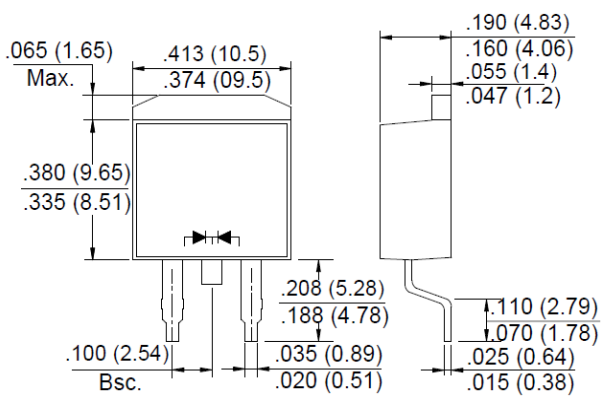
TO-220AB



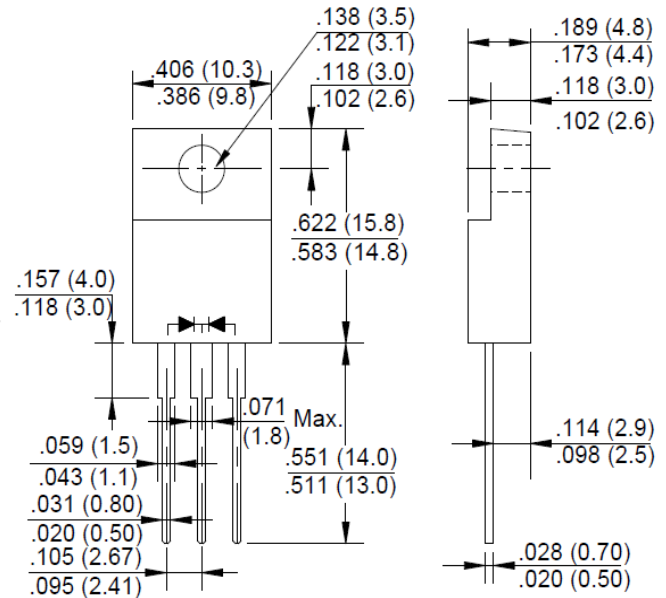
TO-262AA



TO-263AB



ITO-220AB



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