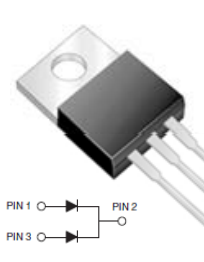
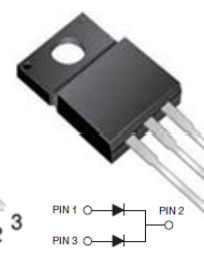

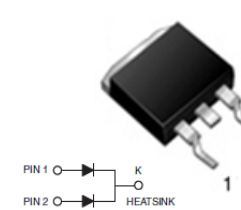
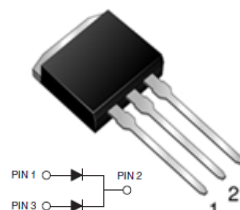




**HTR20L100CT, HTRF20L100CT
HTRI20L100CT, HTRB20L100CT**

SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE	100	Volts
	FORWARD CURRENT	20	Amperes
<p>FEATURES</p> <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 <p>MECHANICAL DATA</p> <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 	<p>TO-220AB</p>  <p>HTR20L100CT</p>	<p>ITO-220AB</p>  <p>HTRF20L100CT</p>	
	<p>TO-263AB</p>  <p>HTRB20L100CT</p>	<p>TO-262AA</p>  <p>HTRI20L100CT</p>	

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	HTR20L100CT, HTRF20L100CT, HTRI20L100CT, HTRB20L100CT	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)	20	A
Maximum Average Forward Rectified Current (Per Leg)		10	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	140	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 (minimun)	-	V	
Forward Voltage (Note1)	V _F	IF=5A @TJ=25°C	0.55	0.59	V
		IF=5A @TJ=125°C	0.51	0.55	
		IF=10A @TJ=25°C	0.69	0.74	
		IF=10A @TJ=125°C	0.63	0.67	
Maximum DC Reverse Current @TJ=25°C	I _R		50	uA	
at Rated DC Bolcking Voltage @TJ=125°C			30	mA	
Typical Junction Capacitance (Note2)	C _J		437	pF	

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

PARAMETER	SYMBOL	Typ				UNIT
		HTR20L100CT	HTRF20L100CT	HTRI20L100CT	HTRB20L100CT	
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

HTR20L100CT, HTRF20L100CT

HTRI20L100CT, HTRB20L100CT

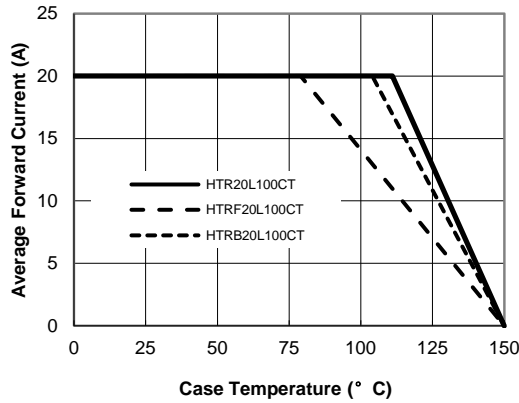


Figure 1. Forward Current Derating Curve

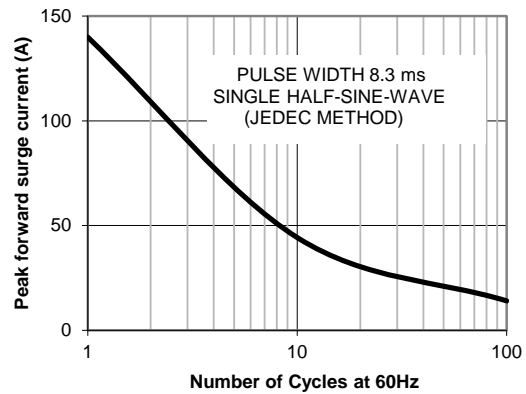


Figure 2. Maximum NON-Repetitive Surge

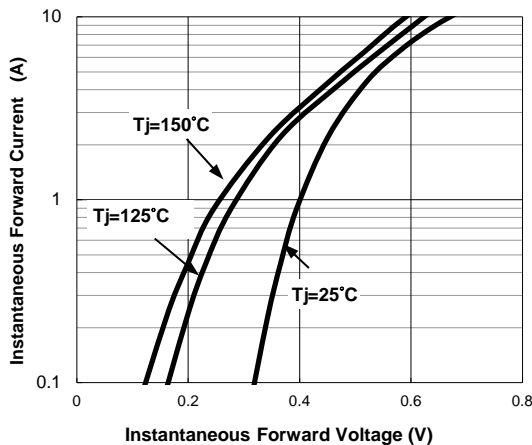


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

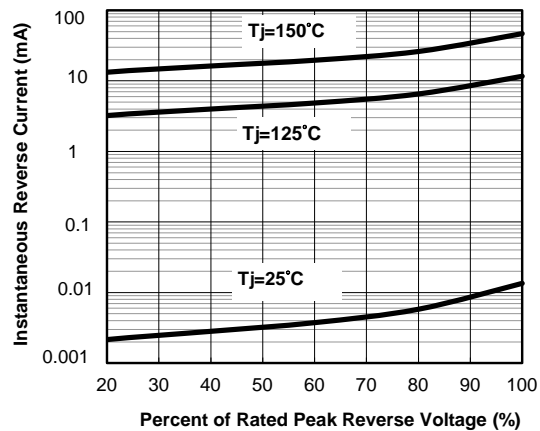


Figure 4. Typical Reverse Characteristics

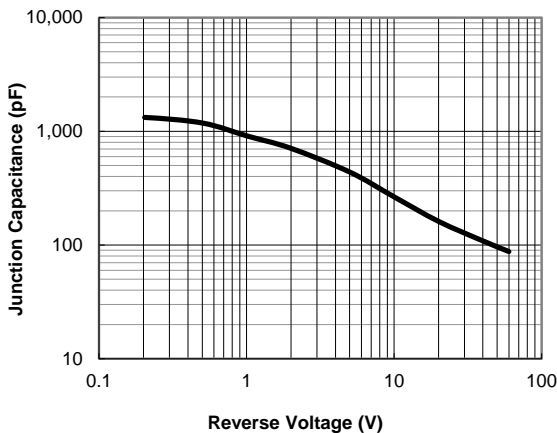


Figure 5. Typical Junction Capacitance

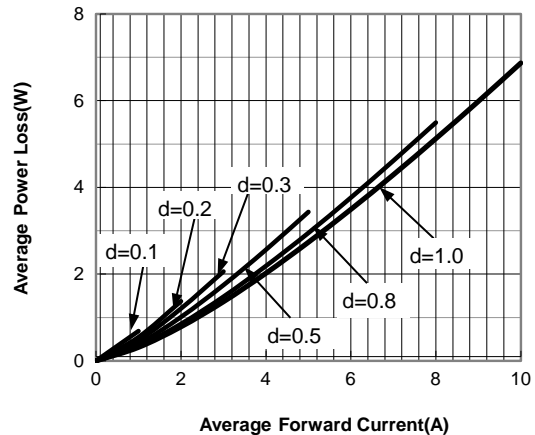


Figure 6. Forward Power Loss Characteristics

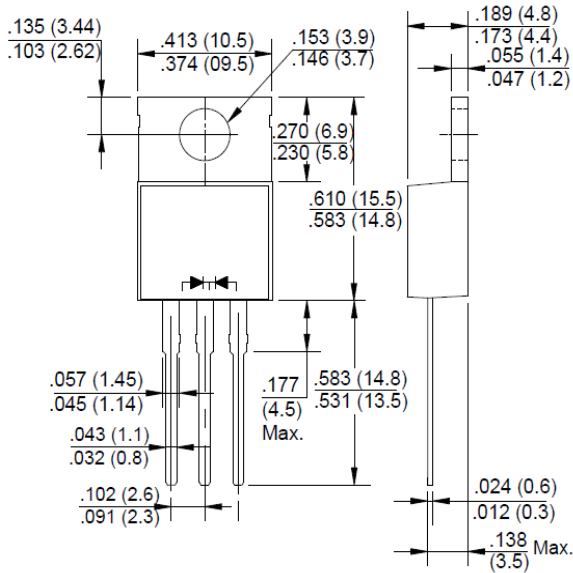
PACKAGE OUTLINE DIMENSIONS in millimeters

HTR20L100CT, HTRF20L100CT

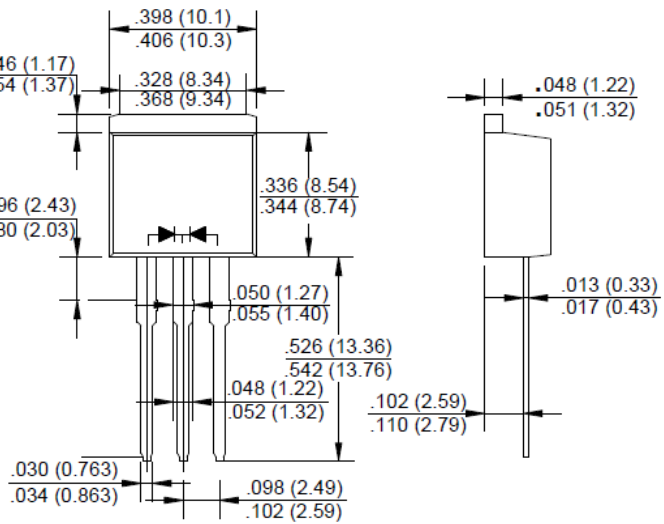
HTRI20L100CT, HTRB20L100CT



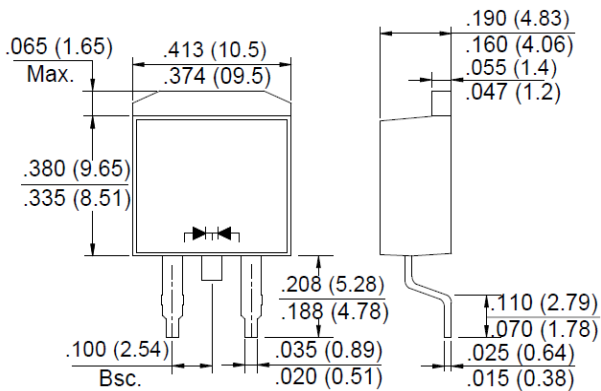
TO-220AB



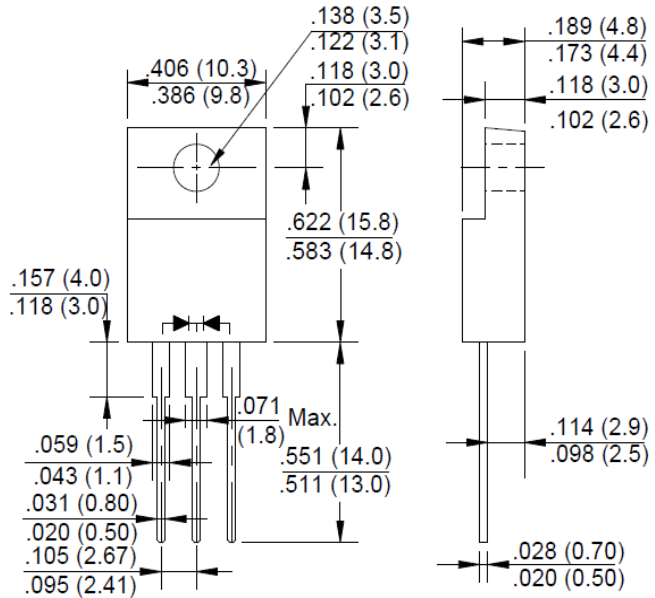
TO-262AA



TO-263AB



ITO-220AB



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