Schottky Barrier Rectifier multicomp



### Features

- · 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**

Case	: TO-220AB
Polarity	: As marked on the body
Weight	: 0.08ounces, 2.24 grams
Mounting position	: Any

#### **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%

Characteristic	Symbol	Valu	ies	Unit	
Maximum Ratings (T <sub>A</sub> = 25 °C unless otherwise noted)		•		•	
Maximum Recurrent Peak Reverse Voltage		60	)	v	
Maximum RMS Voltage		42	2		
Maximum DC Blocking Voltage	VDC	60		7	
Maximum Average Forward Rectified Current (See Fig.1) Maximum Average Forward Rectified Current (Per Leg)	I(AV)	20 10	-		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	Ігѕм	80	)	A	
Peak repetitive reverse current at tp = 2µs, 1kHz	Irrm	1	1		
Operating Temperature Range	TJ	-55 to +150		°C	
Storage Temperature Range	Tstg	-55 to +175			
Electrical Characteristics (T <sub>A</sub> = 25 °C unless otherwise noted)					
Parameter / Conditions	Symbol	Тур	Max	Unit	
Breakdown voltage per diode	Vbr	61 (minimun)	-		
Forward Voltage (Note1) IF=5A @TJ=25°C IF=5A @TJ=125°C IF=10A @TJ=25°C IF=10A @TJ=125°C	VF	0.42 0.32 0.47 0.4	0.45 0.34 0.49 0.42	V	
Maximum DC Reverse Current @TJ=25°C at Rated DC Bolcking Voltage @TJ=125°C	lr	80 10		μA mA	

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RoHS

**Compliant** 

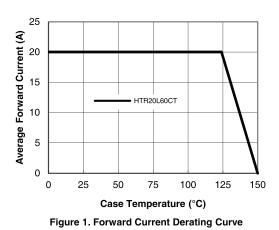
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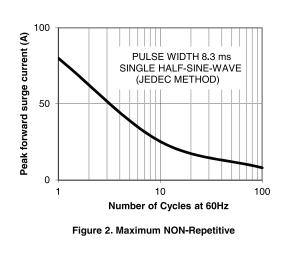
Parameter / Conditions	Symbol	Values	Unit			
Typical Junction Capacitance (Note 2)	CJ	1012	pF			
Thermal Characteristics (T <sub>A</sub> = 25 °C unless otherwise noted)						
Parameter	Symbol	Values	Unit			
Thermal Resistance Per Diode (Note3)	Rejc	3	°C/W			

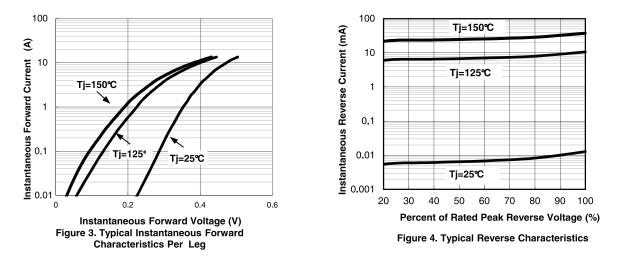
#### Notes:

- 1. 300µs pulse width, 2% duty cycle.
- 2. Measured at 1MHz and applied reverse voltage of 5V DC.
- 3. Thermal resistance junction to case.

### **Rating and Characteristic Curves**



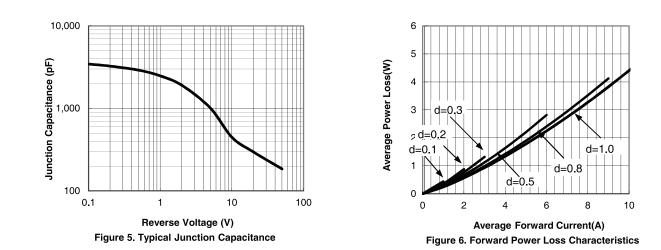




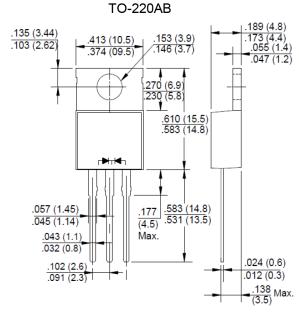
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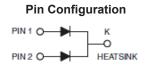
28/04/17 V1.0



# Dimension:



Dimensions : Inches (Millimetres)



# Part Number Table

Description	Part Number	
Schottky Barrier Rectifier	HTR20L60CT	

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