Schottky Barrier Rectifier multicomp

### Features

- Metal of silicon rectifier, majority carrier conduction
- Trench schottky technology
- Low forward voltage drop, high efficiency
- High current capability
- 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	: JEDEC DO-15 molded plastic
Polarity	: Colour band denotes cathode
Weight	: 0.04ounces, 1.1 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	Val	ues	Unit		
Maximum Ratings (T <sub>A</sub> = 25 °C unless otherwise noted)						
Maximum Recurrent Peak Reverse Voltage	Vrrm	15	50			
Maximum RMS Voltage	VRMS	10	)6	V		
Maximum DC Blocking Voltage	VDC	150		1		
Maximum Average Forward Rectified Current	I(AV)	Ę	5			
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	Іғѕм	5	0	A		
Peak repetitive reverse current at tp = 2µs, 1kHz	Irrm					
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	150 (minimun)	-			
Forward Voltage (Note1) IF=2.5A @TJ=25°C   IF=2.5A @TJ=125°C   IF=5A @TJ=25°C   IF=5A @TJ=125°C   IF=5A @TJ=125°C	VF	0.66 0.53 0.88 0.61	0.71 0.57 0.94 0.65	V		
Maximum DC Reverse Current @TJ=25°C at Rated DC Bolcking Voltage @TJ=125°C	IR	1	-	μA mA		
Typical Junction Capacitance (Note 2)	Сл	20	)4	pF		

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# RoHS Compliant

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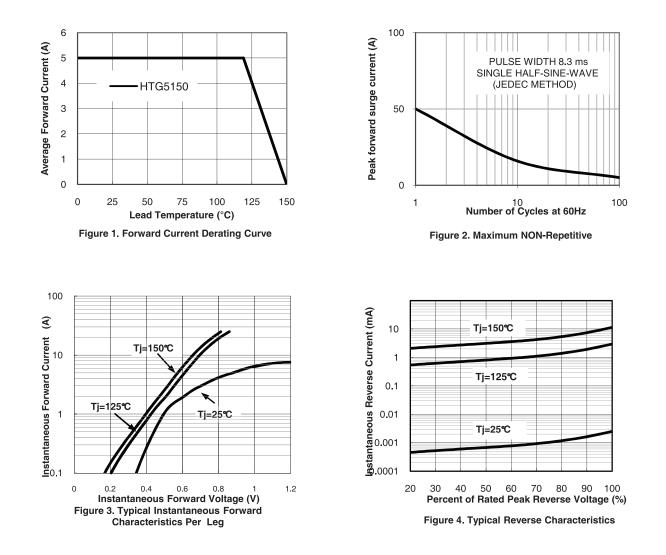
Thermal Characteristics (T <sub>A</sub> = 25 °C unless otherwise noted)					
Parameter	Symbol	Values	Unit		
Thermal Resistance Per Diode (Note3)	Rejl	8	°C/W		

### Notes:

1. 300µs pulse width, 2% duty cycle.

2. Measured at 1MHz and applied reverse voltage of 4V DC.

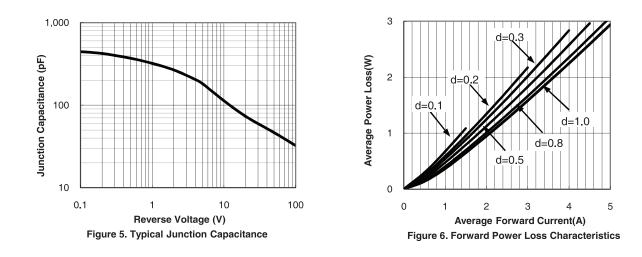
3. Thermal resistance junction to lead.



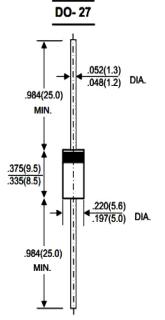
### **Rating and Characteristic Curves**

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### **Dimension:**



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Schottky Barrier Rectifier	HTG5150

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