

# Schottky Barrier Rectifier multicomp<sup>PRO</sup>

RoHS  
Compliant



## Features

- For surface mounted application
- 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 : Molded plastic

Polarity : Indicated by cathode band

Weight : 0.002ounces, 0.053 grams

## 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	Values	Unit	
<b>Maximum Ratings (T<sub>A</sub> = 25 °C unless otherwise noted)</b>				
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	60	V	
Maximum RMS Voltage	V <sub>RMS</sub>	42		
Maximum DC Blocking Voltage	V <sub>DC</sub>	60		
Maximum Average Forward Rectified Current	I(AV)	5	A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	30		
Peak repetitive reverse current at tp = 2µs, 1kHz	I <sub>RRM</sub>	1		
Operating Temperature Range	T <sub>J</sub>	-55 to +150	°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +175		
<b>Electrical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)</b>				
Parameter / Conditions	Symbol	Typ	Max	Unit
Breakdown voltage per diode	V <sub>BR</sub>	60 (minimun)	-	V
Forward Voltage (Note1) I <sub>F</sub> =2.5A @T <sub>J</sub> =25°C I <sub>F</sub> =2.5A @T <sub>J</sub> =125°C I <sub>F</sub> =5A @T <sub>J</sub> =25°C I <sub>F</sub> =5A @T <sub>J</sub> =125°C	V <sub>F</sub>	0.41	0.45	
		0.34	0.37	
		0.49	0.54	
		0.47	0.52	
Maximum DC Reverse Current at Rated DC Bolcking Voltage	I <sub>R</sub>	@T <sub>J</sub> =25°C	200	µA
		@T <sub>J</sub> =125°C	50	mA
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	334		pF

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Thermal Characteristics (T <sub>A</sub> = 25 °C unless otherwise noted)			
Parameter	Symbol	Values	Unit
Thermal Resistance Per Diode (Note3)	R <sub>θJL</sub>	20	°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

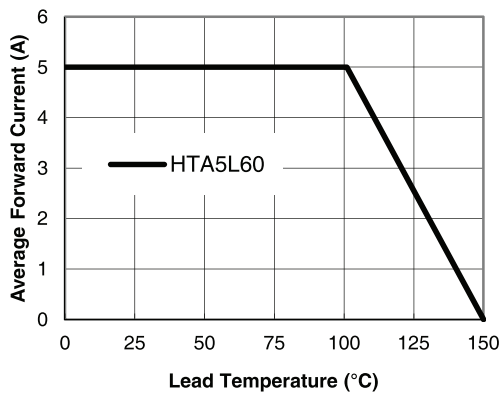


Figure 1. Forward Current Derating Curve

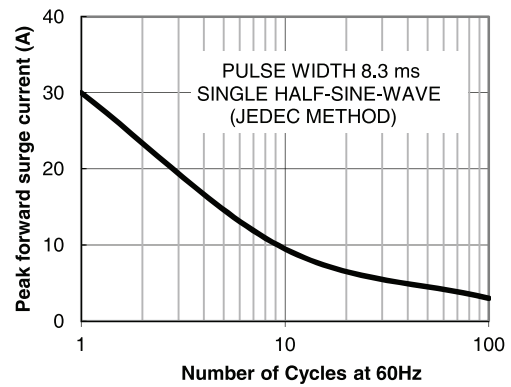


Figure 2. Maximum NON-Repetitive

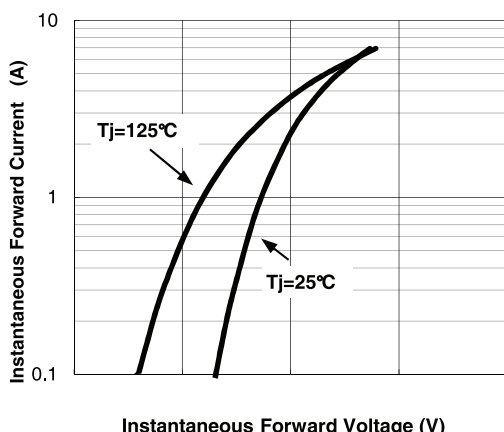


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

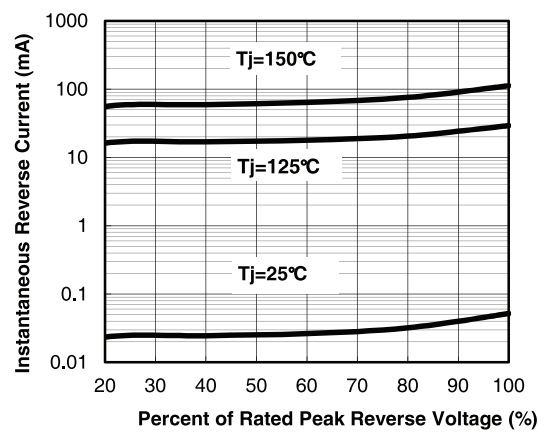


Figure 4. Typical Reverse Characteristics

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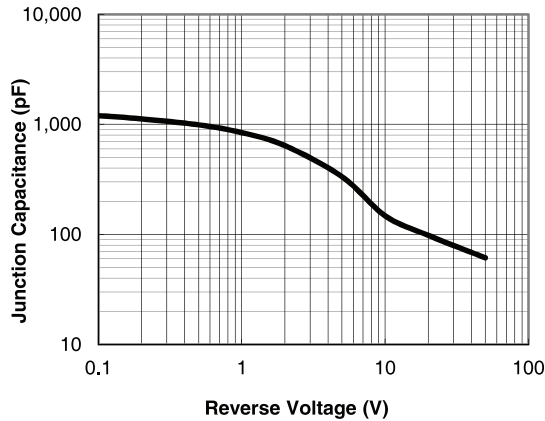


Figure 5. Typical Junction Capacitance

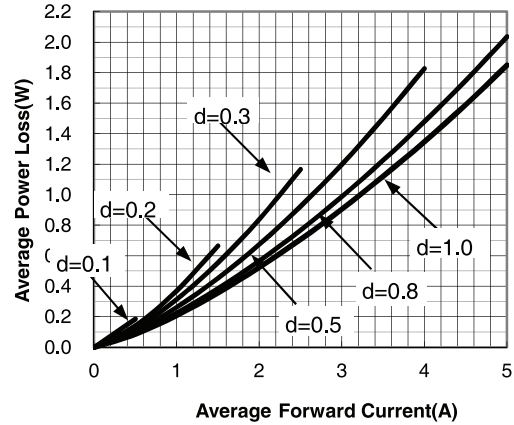
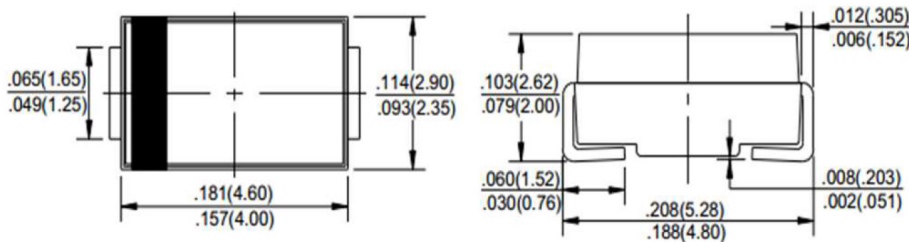


Figure 6. Forward Power Loss Characteristics

## Dimension:

**SMA**



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Schottky Barrier Rectifier	HTA5L60

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