

Schottky Barrier Rectifier multicom^{PRO}

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	
Maximum Ratings (T _A = 25 °C unless otherwise noted)				
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	60	V	
Maximum RMS Voltage	V _{RMS}	42		
Maximum DC Blocking Voltage	V _{DC}	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 _{FSM}	30		
Peak repetitive reverse current at tp = 2μs, 1kHz	I _{RRM}	1		
Operating Temperature Range	T _J	-55 to +150	°C	
Storage Temperature Range	T _{STG}	-55 to +175		
Electrical Characteristics (T _A = 25 °C unless otherwise noted)				
Parameter / Conditions	Symbol	Typ	Max	Unit
Breakdown voltage per diode	V _{BR}	60 (minimun)	-	V
Forward Voltage (Note1) I _F =2.5A @T _J =25°C I _F =2.5A @T _J =125°C I _F =5A @T _J =25°C I _F =5A @T _J =125°C	V _F	0.41	0.45	
		0.34	0.37	
		0.49	0.54	
		0.47	0.52	
Maximum DC Reverse Current @T _J =25°C at Rated DC Bolcking Voltage @T _J =125°C	I _R	200 50		μA mA
Typical Junction Capacitance (Note 2)	C _J	334		pF

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Thermal Characteristics (T _A = 25 °C unless otherwise noted)			
Parameter	Symbol	Values	Unit
Thermal Resistance Per Diode (Note3)	R _{θJL}	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

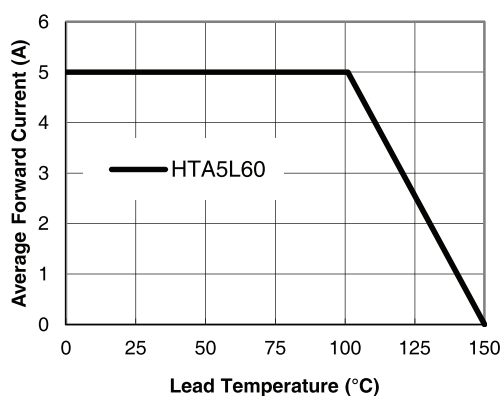


Figure 1. Forward Current Derating Curve

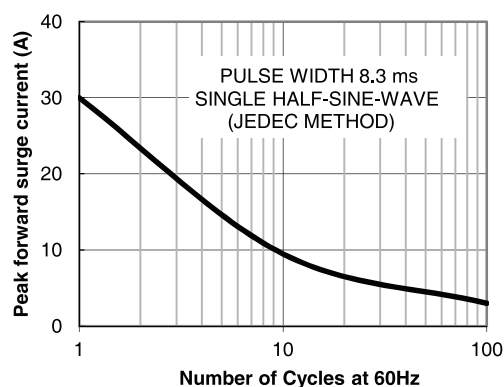


Figure 2. Maximum NON-Repetitive

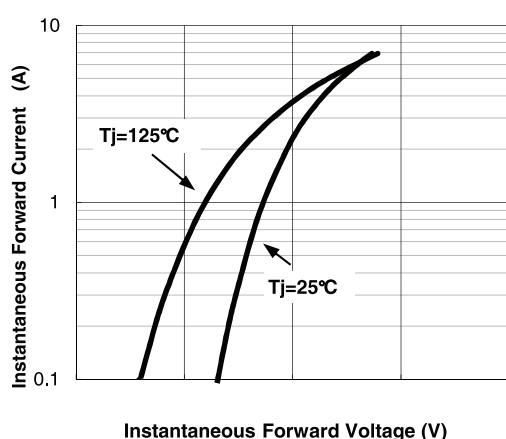


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

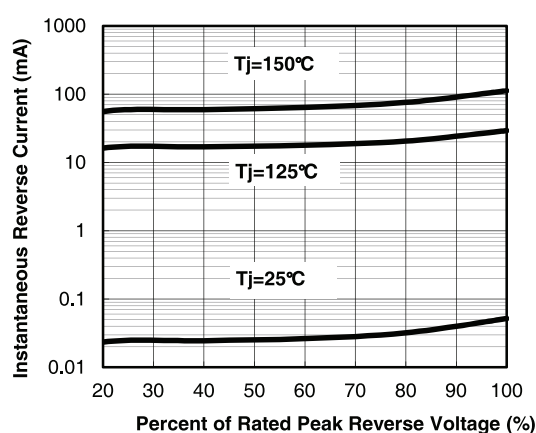


Figure 4. Typical Reverse Characteristics

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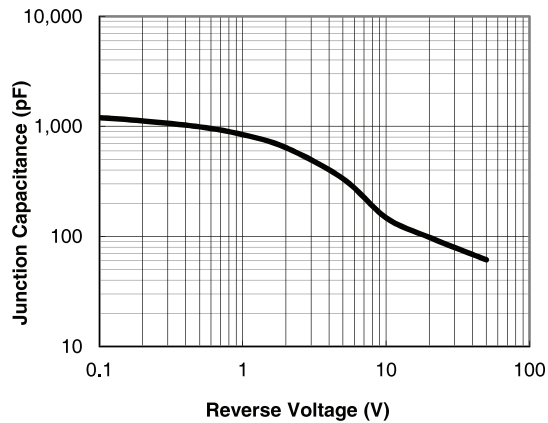


Figure 5. Typical Junction Capacitance

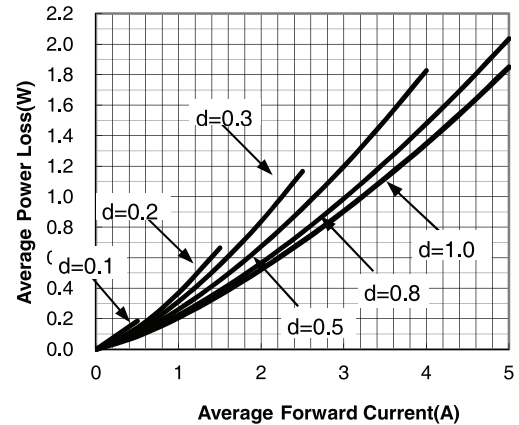
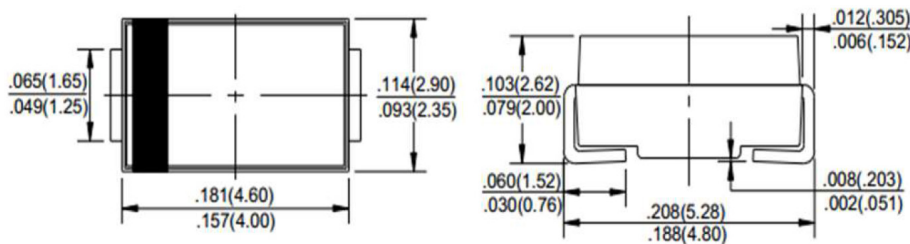


Figure 6. Forward Power Loss Characteristics

Dimension:

SMA



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Barrier Rectifier	HTA5L60

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