Schottky Barrier Rectifier multicomp







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

: 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	Vrrm	60					
Maximum RMS Voltage	VRMS	42	V				
Maximum DC Blocking Voltage	VDC	60					
Maximum Average Forward Rectified Current	I(AV)	5					
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	30	А				
Peak repetitive reverse current at tp = 2µs, 1kHz	IRRM	1					
Operating Temperature Range	TJ	-55 to +150	°C				
Storage Temperature Range	Тѕтс	-55 to +175					
Electrical Characteristics (T _A = 25 °C unless otherwise noted)							

Parameter /	Conditions	Symbol	Тур	Max	Unit	
Breakdown voltage per dio	ode	VBR	60 (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	VF	0.41 0.34 0.49 0.47	0.45 0.37 0.54 0.52	V	
Maximum DC Reverse Culat Rated DC Bolcking Volta		lR	20 5		μA mA	
Typical Junction Capacitan	nce (Note 2)	CJ	33	 34	pF	

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Thermal Characteristics (TA = 25 °C unless otherwise noted)						
Parameter	Symbol	Values	Unit			
Thermal Resistance Per Diode (Note3)	Rejl	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

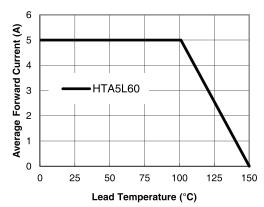


Figure 1. Forward Current Derating Curve

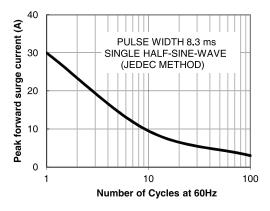
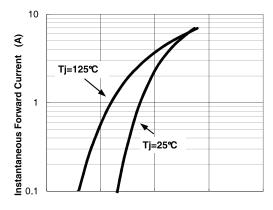


Figure 2. Maximum NON-Repetitive



Instantaneous Forward Voltage (V) Figure 3. Typical Instantaneous Forward Characteristics Per Leg

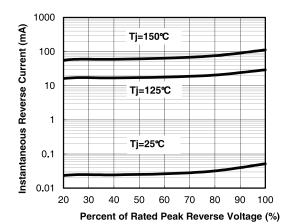


Figure 4. Typical Reverse Characteristics

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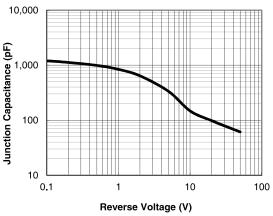


Figure 5. Typical Junction Capacitance

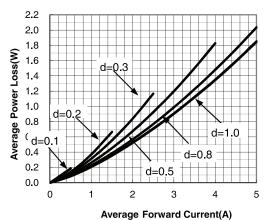


Figure 6. Forward Power Loss Characteristics

Dimension:

SMA .012(.305) .006(.152) .114(2.90) .103(2.62) .079(2.00) .093(2.35) .060(1.52) .008(.203) .181(4.60) .002(.051) .030(0.76) .157(4.00)

Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Schottky Barrier Rectifier	HTA5L60	

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