Schottky Barrier Rectifier multicomp PRO





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	Vrrm	100				
Maximum RMS Voltage	VRMS	70	V			
Maximum DC Blocking Voltage	VDC	100				
Maximum Average Forward Rectified Current	I(AV)	5				
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	35	A			
Peak repetitive reverse current at tp = 2µs, 1kHz	IRRM	1				
Operating Temperature Range	TJ	-55 to +150	°C			
Storage Temperature Range	Тѕтс	-55 to +150				
Electrical Characteristics (T _A = 25 °C unless otherwise noted)						

Parameter / 0	Conditions	Symbol	Тур	Max	Unit
Breakdown voltage per diode		VBR	110 (minimun)	-	
Forward Voltage (Note1)	IF=2.5A @T _J =25°C IF=2.5A @T _J =125°C IF=5A @T _J =25°C IF=5A @T _J =125°C	VF	0.56 0.52 0.7 0.64	0.6 0.56 0.75 0.68	V
Maximum DC Reverse Cur at Rated DC Bolcking Volta		lR	4 2		μA mA
Typical Junction Capacitan	ce (Note 2)	Сл	21	7	pF

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

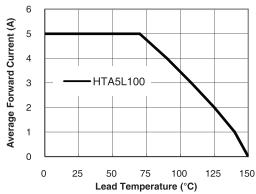


Figure 1. Forward Current Derating Curve

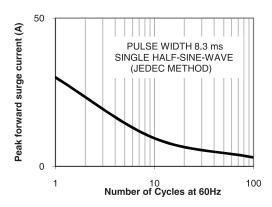
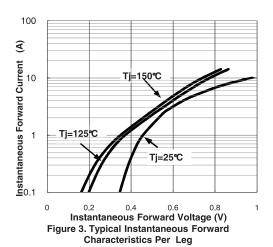


Figure 2. Maximum NON-Repetitive



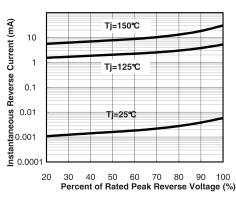
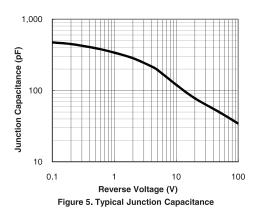


Figure 4. Typical Reverse Characteristics

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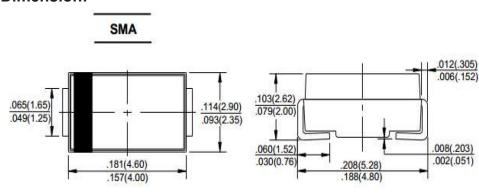


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de0.2
de0.3
de0.3
de0.3
de0.4
de0.5
de0.5
de0.5
Average Forward Current(A)
Figure 6. Forward Power Loss Characteristics

Dimension:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Schottky Barrier Rectifier	HTA5L100	

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