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	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	50	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	/T4 - 25 °C	unlocc	otherwise noted)
Liectricai	Characteristics	(IA = 25 °C	uniess	otnerwise noted)

Parameter / Conditions	Symbol	Тур	Max	Unit
Breakdown voltage per diode	VBR	110 (minimun)	-	
Forward Voltage (Note1)	VF	0.51 0.45 0.61 0.57	0.55 0.48 0.65 0.6	V
Maximum DC Reverse Current @TJ=25°C at Rated DC Bolcking Voltage @TJ=125°C	lr		0 0	μA mA
Typical Junction Capacitance (Note 2)	CJ	32	22	pF

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Thermal Characteristics (TA = 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

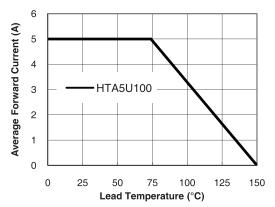


Figure 1. Forward Current Derating Curve

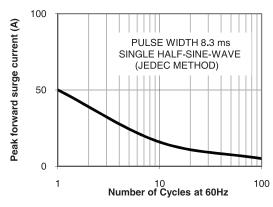
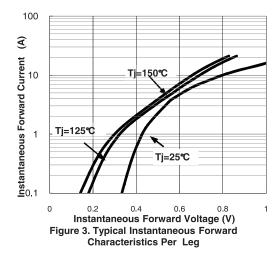


Figure 2. Maximum NON-Repetitive



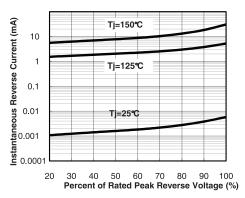
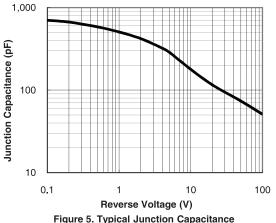


Figure 4. Typical Reverse Characteristics

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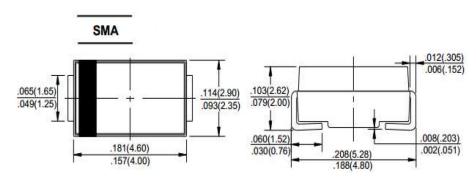




Average Power Loss(W) 2 d = 0.8d=0.5 3 Average Forward Current(A)

Figure 6. Forward Power Loss Characteristics

Dimension:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Schottky Barrier Rectifier	HTA5U100	

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