Schottky Barrier Rectifier multicomp



Features

- · Metal of silicon rectifier, majority carrier conduction
- Trench schottky technology
- Low power loss, high efficiency
- High current capability, low VF
- 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	: TO-220AB
Polarity	: As marked on the body
Weight	: 0.08ounces, 2.24 grams
Mounting position	: Any

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	Valı	les	Unit	
Maximum Ratings (TA = 25 °C unless otherwise noted)		•			
Maximum Recurrent Peak Reverse Voltage	Vrrm	6	0		
Maximum RMS Voltage		42	2	V	
Maximum DC Blocking Voltage	VDC	60		7	
Maximum Average Forward Rectified Current (See Fig.1) Maximum Average Forward Rectified Current (Per Leg)	I(AV)	40	•		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	Ігѕм	30	00	A	
Peak repetitive reverse current at tp = 2µs, 1kHz	Irrm	1		7	
Operating Temperature Range	TJ	-55 to +150		- °C	
Storage Temperature Range	Tstg	-55 to +175			
Electrical Characteristics (T _A = 25 °C unless otherwise noted)					
Parameter / Conditions	Symbol	Тур	Мах	Unit	
Breakdown voltage per diode	Vbr	63 (minimun)	-		
Forward Voltage (Note1) IF=10A @TJ=25°C IF=10A @TJ=125°C IF=20A @TJ=25°C IF=20A @TJ=125°C IF=20A @TJ=125°C	VF	0.38 0.29 0.44 0.39	0.4 0.31 0.46 0.4	V	
Maximum DC Reverse Current@TJ=25°Cat Rated DC Bolcking Voltage@TJ=125°C	lr	50 12	-	μA mA	

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RoHS

Compliant

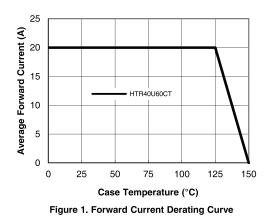
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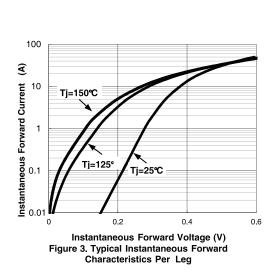
Parameter / Conditions	Symbol	Values	Unit			
Typical Junction Capacitance (Note 2)	CJ	1928	pF			
Thermal Characteristics (T _A = 25 °C unless otherwise noted)						
Parameter	Symbol	Values	Unit			
Thermal Resistance Per Diode (Note3)	Rejc	3	°C/W			

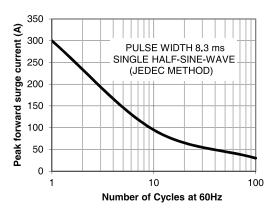
Notes:

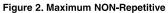
- 1. 300µs pulse width, 2% duty cycle.
- 2. Measured at 1MHz and applied reverse voltage of 5V DC.
- 3. Thermal resistance junction to case.

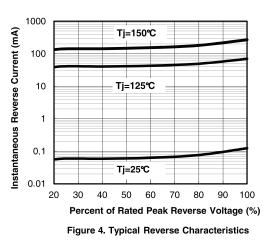
Rating and Characteristic Curves





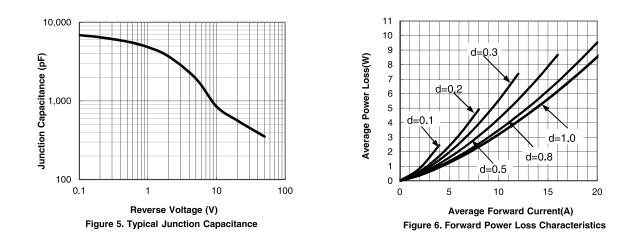




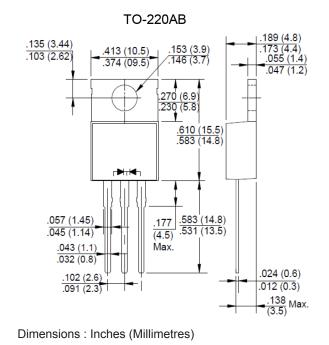


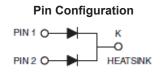
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Dimension:





Part Number Table

Description	Part Number	
Schottky Barrier Rectifier	HTR40U60CT	

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