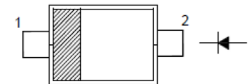
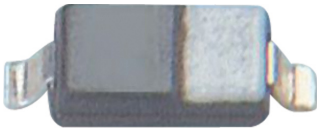


# Surface Mount Schottky Barrier Rectifier

**multicomp** PRO

**RoHS  
Compliant**



## Features

- Low forward voltage drop
- Fast switching time

## Pinning

1. Cathode
2. Anode

## Maximum Ratings and Electrical Characteristics

Rating at 25°C Ambient Temperature Unless Otherwise Specified.

Characteristic	Symbol	Rating	Units
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30	V
Reverse Voltage	V <sub>R</sub>	30	V
Forward Continuous Current	I <sub>FM</sub>	200	mA
Forward DC Current at Tamb = 25°C	I <sub>F</sub>	200	mA
Repetitive Peak Forward Current at t < 1 s	I <sub>FRM</sub>	500	mA
Non-repetitive Peak Forward Surge Current at t < 10	I <sub>FSM</sub>	2	A
Power Dissipation	P <sub>TOT</sub>	200	mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	500	°C/W
Operating Temperature Range	T <sub>j</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

Characteristic	Symbol	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage (I <sub>R</sub> = 101uAdc Pulsed)	V <sub>(BR)R</sub>	30	-	-	V
Forward Voltage (2) I <sub>F</sub> = 200mA DC I <sub>F</sub> = 10mA DC I <sub>F</sub> = 50mA DC	V <sub>F</sub>		-	1 0.4 0.65	V
Leakage Current (2) (V <sub>R</sub> = 25V DC)	I <sub>R</sub>			0.5	µA
Capacitance (V <sub>R</sub> = 1, f = 1MHz)	C <sub>T</sub>	-	-	10	pF
Reverse Recovery Time(I <sub>F</sub> = 10mA, I <sub>R</sub> = 10mA) (I <sub>rr</sub> = 1mA, R <sub>L</sub> = 100Ω)	t <sub>rr</sub>	-	-	5	nS

Notes: 1. Valid Provided that Terminals are Kept at Ambient Temperature.

2. Pulse Test tp<300µs, Duty Cycle<2%

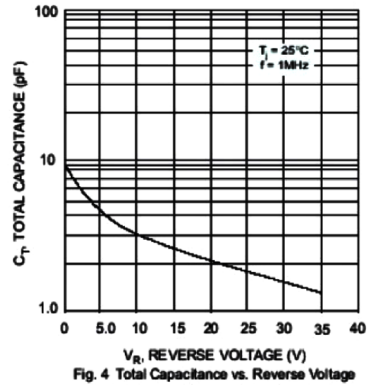
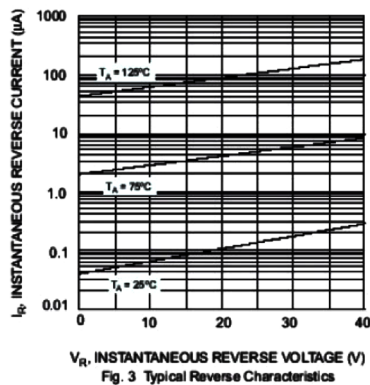
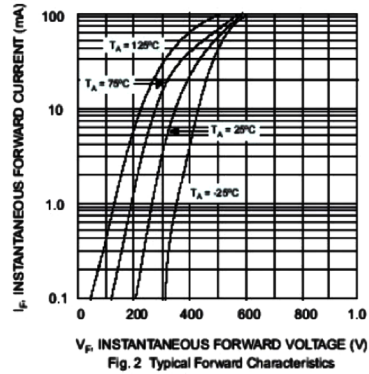
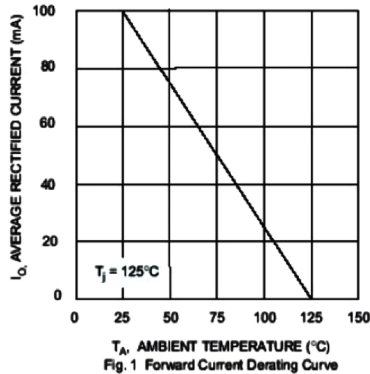
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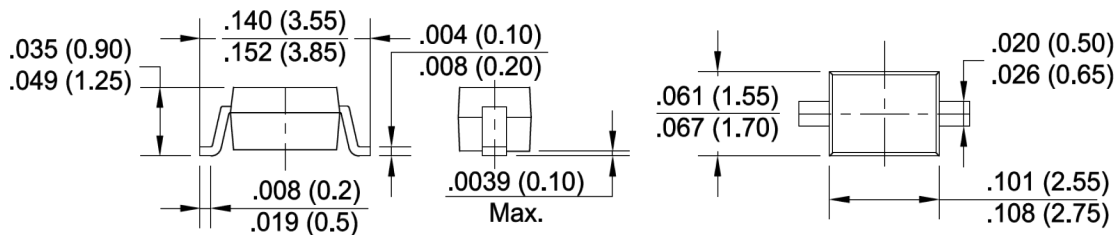
# Surface Mount Schottky Barrier Rectifier

multicomp **PRO**

## Rating And Characteristic Curves



## Dimension



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Diode, Schottky, SOD-123	BAT42W+

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