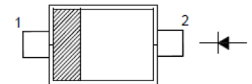
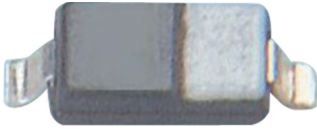


# Surface Mount Schottky Barrier Rectifier

**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	VRRM	30	V
Reverse Voltage	VR	30	V
Forward Continuous Current	IFM	200	mA
Forward DC Current at Tamb = 25°C	IF	200	mA
Repetitive Peak Forward Current at t < 1 s	IFRM	500	mA
Non-repetitive Peak Forward Surge Current at t < 10	IFSM	2	A
Power Dissipation	PTOT	200	mW
Thermal Resistance Junction to Ambient Air	RθJA	500	°C/W
Operating Temperature Range	Tj	-55 to +125	°C
Storage Temperature Range	TSTG	-55 to +150	°C

Characteristic	Symbol	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage (IR = 101uAdc Pulsed)	V(BR)R	30	-	-	V
Forward Voltage (2) IF = 200mA DC IF = 10mA DC IF = 50mA DC	VF		-	1 0.4 0.65	V
Leakage Current (2) (VR = 25V DC)	IR			0.5	µA
Capacitance (VR = 1, f = 1MHz)	CT	-	-	10	pF
Reverse Recovery Time(IF = 10mA, IR = 10mA) (Irr = 1mA, RL = 100Ω)	trr	-	-	5	nS

Notes: 1. Valid Provided that Terminals are Kept at Ambient Temperature.  
2. Pulse Test tp<300µs, Duty Cycle<2%

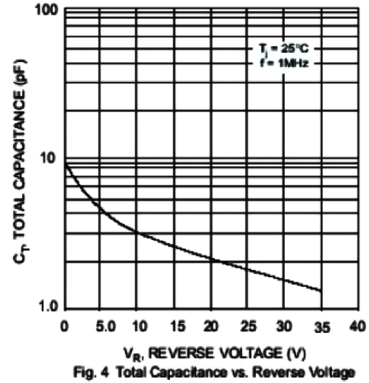
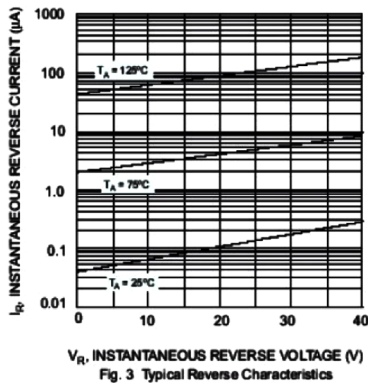
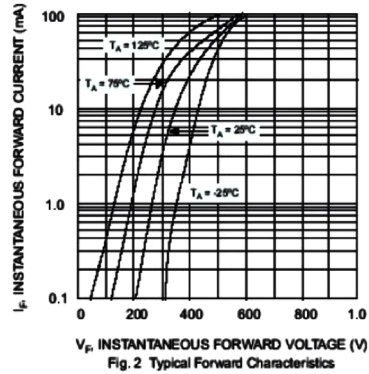
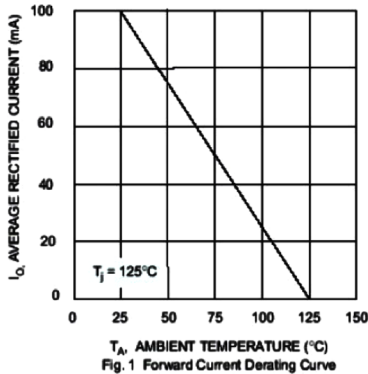
Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

**multicomp** PRO

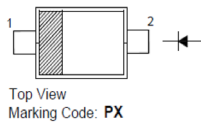
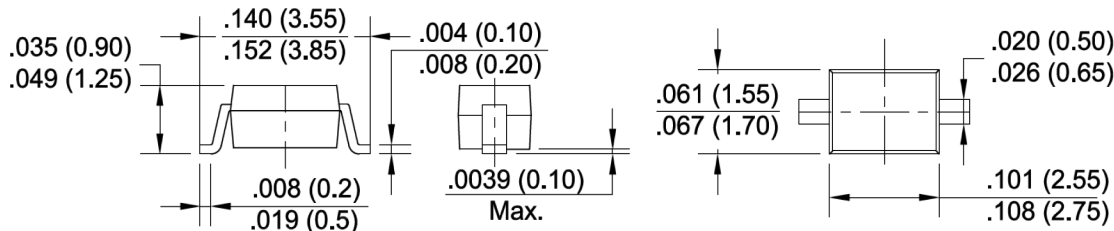
# Surface Mount Schottky Barrier Rectifier

multicomp PRO

## Rating And Characteristic Curves



## Dimension



## Part Number Table

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

Dimensions : Inches (Millimetres)

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

multicomp PRO