## Plastic Silicon Rectifier

# multicomp



#### Features:

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- · Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents

#### Mechanical Data:

Case Terminals Polarity Weight Mounting position Voltage Range Current

- : JEDEC DO-41, molded plastic
- : Axial lead, solderable per MIL- STD-202, Method 208
- : Colour band denotes cathode
- : 0.012oz, 0.34g
- : Any
- : 50V to 1,000V
- : 1A

#### Maximum Ratings And Electrical Characteristics:

Ratings at 25°C ambient temperature unless otherwise specified. Single phase,half wave,60Hz,resistive or inductive load. For capacitive load,derate by 20%.

Characteristics	Symbol	Value	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	V
Maximum RMS voltage	V <sub>RMS</sub>	35	
Maximum DC blocking voltage	V <sub>DC</sub>	50	
Maximum average forward rectified current 9.5mm lead lengths, $@T_A = 75^{\circ}C$	I <sub>F(AV)</sub>	1	A
Peak forw ard surge current 8.3ms single half-sine-wave superimposed on rated load $@T_J = 125^{\circ}C$	I <sub>FSM</sub>	40	
Maximum instantaneous forward voltage @1A	V <sub>F</sub>	1	
Maximum reverse current @ $T_A = 25^{\circ}C$ at rated DC blocking voltage @ $T_A = 100^{\circ}C$	I <sub>R</sub>	5 50	μA
Typical Junction Capacitance (Note1)	CJ	15	pF
Typical thermal resistance (Note2)	R <sub>eja</sub>	50	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T <sub>stg</sub>		

Note: 1. Measured at 1MHz and Applied Reverse Voltage of 4V DC.

2. Thermal resistance from junction to ambient.

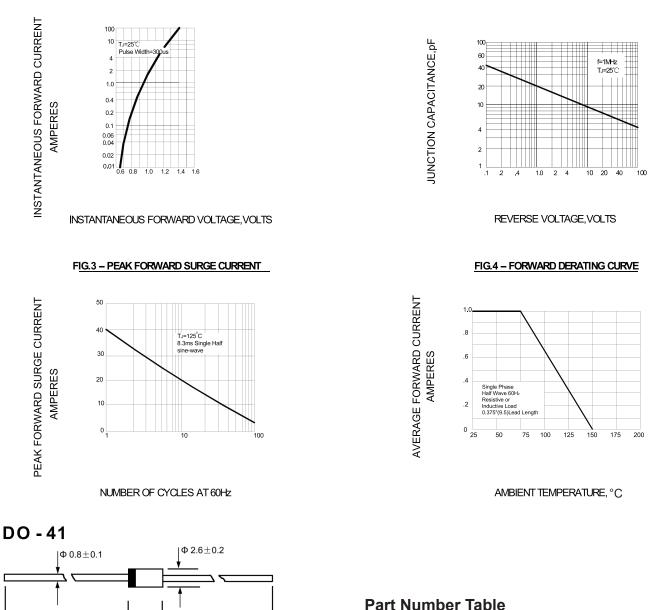


## **Plastic Silicon Rectifier**

## multicomp

FIG.2 - TYPICAL JUNCTION CAPACITANCE

FIG.1 - TYPICAL FORWARD CHARACTERISTIC



Description

Description	Part Number	
Plastic Silicon Rectifier	1N4001-T	

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell 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 oss 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 is the registered trademark of the Group. © Premier Farnell plc 2012.

25.4 MIN

5.1±0.2

www.element14.com www.farnell.com www.newark.com

25.4 MIN

**Dimensions : Millimetres** 

