# Plastic Silicon Rectifiers 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.

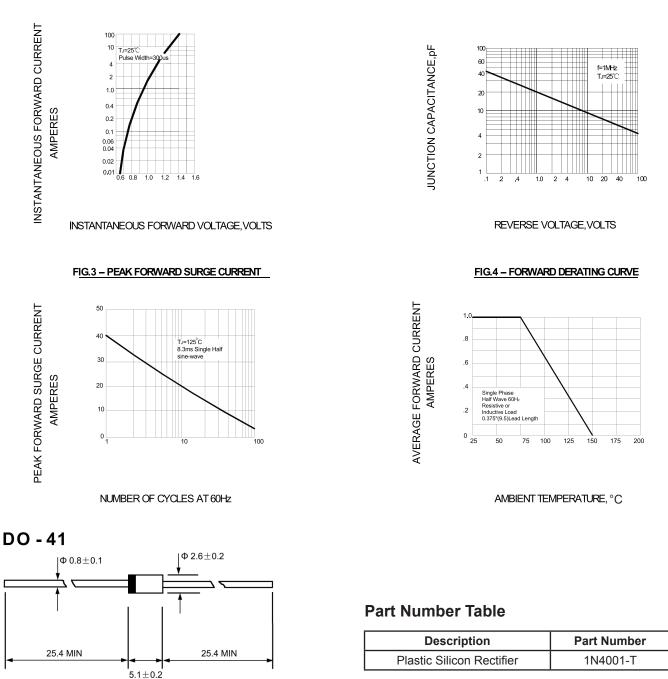
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FIG.1 - TYPICAL FORWARD CHARACTERISTIC





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**Dimensions : Millimetres** 

