## **Standard Diode**

# multicomp PRO





#### Features:

- High efficiency, Low VF
- High current capability
- · High reliability
- · High surge current capability
- · Low power loss

#### **Mechanical Data**

Case : Moulded plastic

Epoxy : UL 94V-0 rate flame retardant Polarity : Colour band denotes cathode

High temperature soldering guaranteed : 260°C / 10s / 0.375 Inches, (9.5mm) lead lengths at 5 lbs, (2.3kg) tension

Weight : 0.35 g

### Max. Ratings and Electrical Characteristics

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

Type Number	Symbol	Values	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	1,000	V
Maximum RMS Voltage	VRMS	700	
Maximum DC Blocking Voltage	VDC	1,000	
Maximum Average Forward Rectified Current 0.375 Inches (9.5mm) Lead Length at T <sub>A</sub> = 7 5°C	lF(AV)	1	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	IFSM	30	
Rating for Fusing (t < 8.3 ms)	I <sup>2</sup> T	3.7	A <sup>2</sup> S
Maximum Instantaneous Forward Voltage at 1A (Note 1)	VF	1	V
Maximum Reverse Current at Rated VR $T_A = 25$ °C $T_A = 125$ °C	lR	5 50	μA
Maximum Full load Reverse Current, Full cycle Average 0.375 Inches (9.5mm) Lead Length at T <sub>A</sub> = 75°C	lr(AV)	30	μA
Typical Junction Capacitance (Note 2)	Cı	10	pF
Typical Thermal Resistance	Reja Rejc Rejl	65 6 15	°C/W
Operating Temperature Range	TJ	-65 to +150	°C
Storage Temperature Range	Тѕтс	-65 to +150	°C

Notes: 1. Pulse Test with PW = 300 usec, 1% Duty Cycle

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

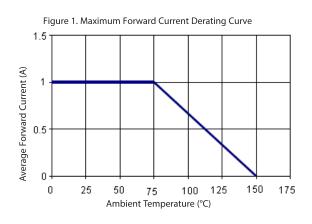
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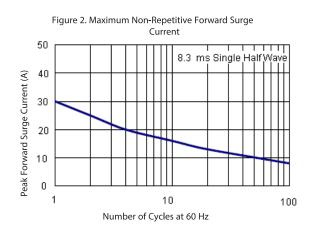


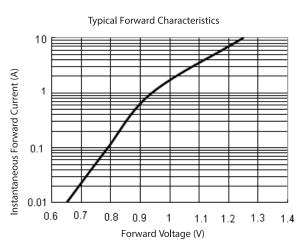
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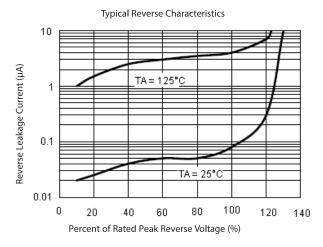


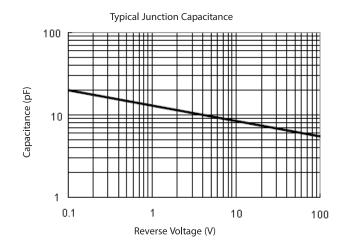
### **Rating and Characteristic Curves**











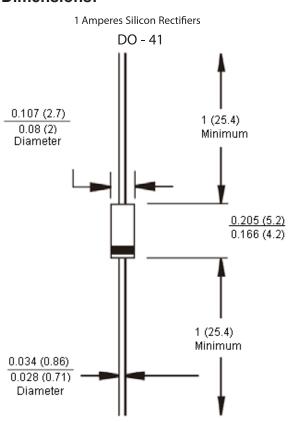
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# **Standard Diode**



### **Dimensions:**



Dimensions: Inches (Millimetres)

#### **Part Number Table**

Description	Part Number	
Standard Power Diode, 1A, Single, 2.5V, 30A	1N4007+	

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