# multicomp PRO

RoHS

**Compliant** 



#### Features

- For surface mounted applications
- · Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0
- Lead free
- Case style: DO-214AC (SMA) molded plastic

### **Maximum Ratings and Electrical Characteristics**

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

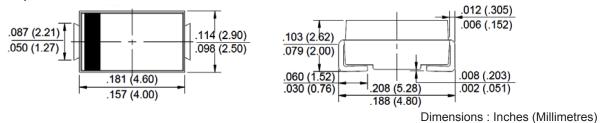
Characteristics	Symbol	Values	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	1000	
Maximum RMS Voltage	Vrms	700	V
Maximum DC Blocking Voltage	VDC	1000	
Maximum Average Forward Rectified Current @ T∟ = 100°C	l(AV)	1	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	30	A
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	l²t	3.7	A <sup>2</sup> s
Peak Forward Voltage at 1A DC (Note1)	VF	1.1	V
Max. DC Reverse Current @ TJ=25°C Rated DC Blocking Voltage @ TJ=100°C	lr	5 100	μA
Typical Junction Capacitance (Note 2)	С	10	pF
Typical Thermal Resistance Junction to Case	Rejc	30	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс		

Notes: 1. 300µS pulse width, 2%duty cycle

2. Measured at 1 MHz and applied reverse voltage of 4V DC

3. The typical data above is for reference only.

#### DO-214AC (SMA)

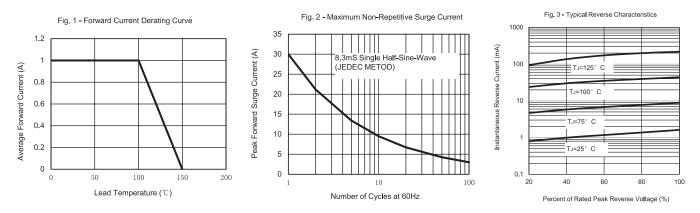


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### **Rating and Characteristic Curves**





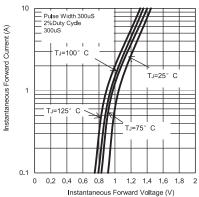
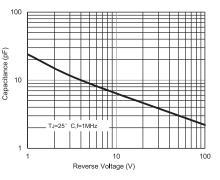


Fig. 5 - Typical Junction Capacitance



### Part Number Table

Description	Part Number	
Rectifier Diode, 1kV, 1A, DO-214AC (SMA)	1N4007 SMD	

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