Surface Mount High Efficiency Glass Passivated Rectifier

multicomp PRO



Features:

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

Mechanical Data:

Case	: Molded plastic body
Polarity	: Colour band denotes cathode
Weight	: 0.002 ounces, 0.064 grams
Mounting position	: Any
Reverse Voltage	: 600 to 1000 Volts
Forward Current	: 1 Ampere

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		UF1J+	UF1K+	UF1M+	Unit
Max. Recurrent Peak Reverse Voltage		600	800	1000	
Max. RMS Voltage	VRMS	420	560	700	V
Max. DC Blocking Voltage	VDC	600	800	1000	
Max. Average Forward Rectified Current	lf(AV)	1			
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Super Imposed on Rated Load(JEDEC Method)	IFSM	30		A	
Peak Forward Voltage at 1A DC	VF	1.7		V	
Maximum DC Reverse Current@TJ=25°Cat Rated DC Blocking Voltage@TJ=100°C	lr	5 100		μA	
Maximum Reverse Recovery Time(Note1)	Trr	75		nS	
Typical Junction Capacitance (Note2)	Сл	10		рF	
Typical Thermal Resistance (Note3)	Rejl	25		°C/W	
Operating Temperature Range	TJ	-55 to +150			°C
Storage Temperature Range	Тѕтс				

Notes:

- 1. Measured with IF=0.5A,IR=1A,IRR=0.25A.
- 2. Measured at 1MHz and applied reverse voltage of 4V DC.
- 3. Thermal resistance junction to lead.
- 4. The typical data above is for reference only

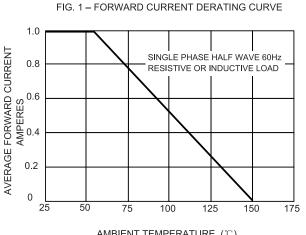
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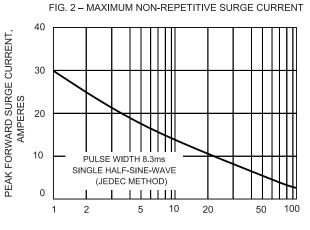
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Ratings and Characteristic Curves



AMBIENT TEMPERATURE (℃)



NUMBER OF CYCLES AT 60Hz

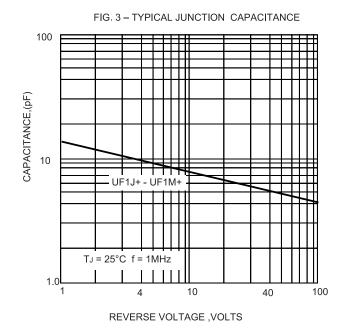
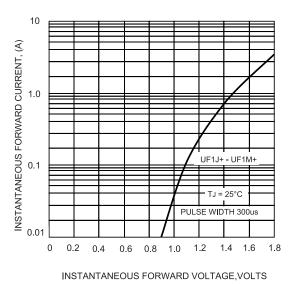


FIG.4-TYPICAL FORWARD CHARACTERISTICS



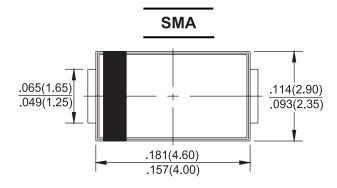
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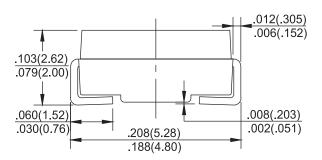


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Dimensions:





Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number	
Ultra Fast Diode 1A 600V SMA	UF1J+	
Ultra Fast Diode 1A 800V SMA	UF1K+	
Ultra Fast Diode 1A 1,000V SMA	UF1M+	

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