Super Fast Rectifier





Features:

- Super fast switching time for high efficiency
- · Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

Mechanical Data:

Case : JEDEC R-6 molded plastic
Polarity : Colour band denotes cathode
Weight : 0.07 ounces, 2.1 grams

Mounting Position : Any
Reverse Voltage : 50 Volts
Forward Current : 6 Amperes

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
Max. Recurrent Peak Reverse Voltage	VRRM	50	
Max. RMS Voltage	VRMS	35] v
Max. DC Blocking Voltage	VDC	50] [
Max. Average Forward Rectified Current TA = 55°C	I(AV)	6	А
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC method)	lгsм	150	
Peak Forward Voltage at 4A DC	VF	0.975	V
Max. DC Reverse Current at $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 100^{\circ}C$	lR	10 100	μA
Max. Reverse Recovery Time (Note 1)	Trr	35	nS
Typical Junction Capacitance (Note 2)	CJ	100	pF
Typical Thermal Resistance (Note 3)	Reja	5	°C/W
Operating Temperature Range	Тл	-55 to +150	l ∘c l
Storage Temperature Range	Tstg		

Notes:

- 1. Measured with IF = 0.5A, IR = 1A, IRR = 0.25A.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to ambient.
- 4. The typical data above is for reference only

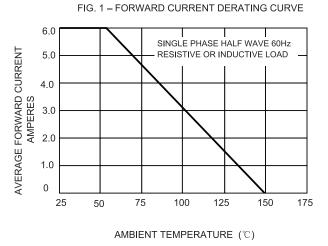
www.element14.com www.farnell.com www.newark.com



Super Fast Rectifier



Ratings and Characteristic Curves



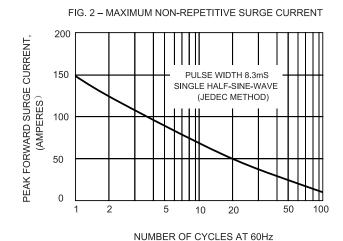


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

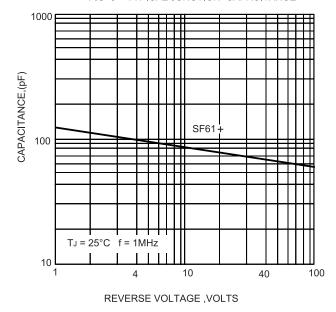
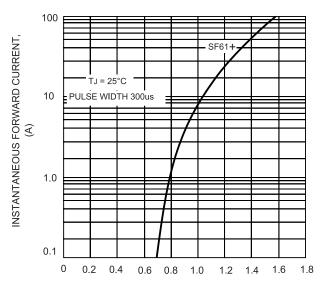


FIG.4-TYPICAL FORWARD CHARACTERISTICS



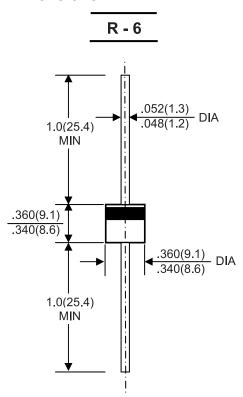
INSTANTANEOUS FORWARD VOLTAGE, VOLTS



Super Fast Rectifier



Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number
Super Fast Rectifier	SF61+

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 products for their purpose and not make any assumptions based on information included or omitted. Liability for loss 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 Limited 2016.

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

