Surface Mount Super Fast Recover Rectifier





Features:

- Low reverse leakage
- Glass passivated chip junction
- High forward surge capability
- High temperature soldering guaranteed: 260°C/10s seconds at terminals.

Mechanical Data:

Case	: Molded plastic body	
Terminals	: Solder plated	
Polarity	: Colour band denotes cathode	
Mounting position	: Any	
Reverse Voltage	: 50 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%.

Type Number	Symbol	UF1AB	UF1BB	UF1DB	UF1JB	UF1KB	UF1MB	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	50	100	200	600	800	1000	
Max. RMS Voltage	VRMS	35	70	140	420	560	700	V
Max. DC Blocking Voltage	VDC	50	100	200	600	800	1000	
Max. Average Forward Rectified Current	IF(AV)	1						
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	IFSM	30					A	
Max. Peak Reverse Current Full Cycle @Ta=75°C	IR(AV)	30					μA	
Max. Forward Voltage IF = 1A	VF	1 1.7				V		
Max. Reverse Current T _A = 25°C	Ir	5				μA		
Max. Reverse Recovery Time IF = 0.5A IR = 1.0A IRR = 0.25A	Trr	50		75			nS	
Type Junction Capacitance VR = 4.0V, f =1MHz	Сл	15					pF	
Typical Thermal Resistance	Reja	50			°C/W			
Operating Temperature Range	TJ	-55 to +150			°C			
Storage Temperature Range	Тѕтс							

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

- 2. Thermal resistance junction to lead.
- 3. The typical data above is for reference only

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



Surface Mount Super Fast Recover Rectifier

multicomp

Ratings and Characteristic Curves

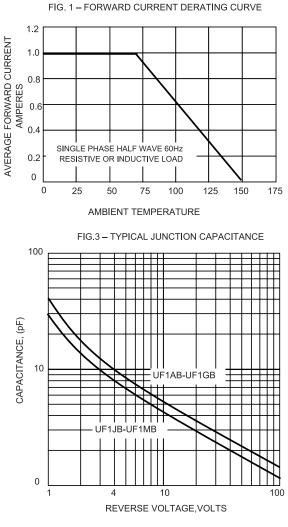
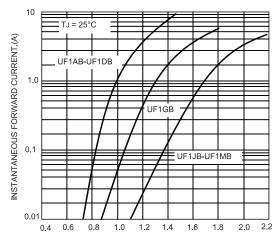


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT 40 PEAK FORWARD SURGE CURRENT AMPERES 8.3ms 30 SINGLE HALF-SINE-WAVE (JEDEC METHOD) 20 10 0 2 5 20 50 100 1 10

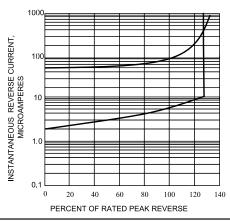
NUMBER OF CYCLES AT 60Hz





INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.5-TYPIACL REVERSE CHARACTERISTICS



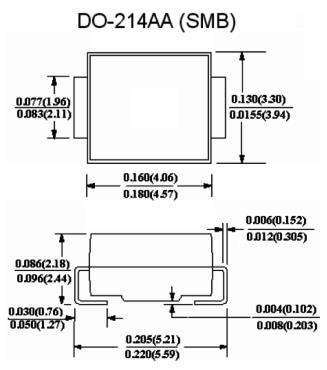
www.element14.com www.farnell.com www.newark.com



Surface Mount Super Fast Recover Rectifier

multicomp

Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number		
Surface Mount Super Fast Recover Rectifiers	UF1AB		
	UF1BB		
	UF1DB		
	UF1JB		
	UF1KB		
	UF1MB		

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 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 plc 2012.

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

