

Surface Mount Super Fast Recover Rectifier

multicomp PRO



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	V _{RRM}	50	100	200	600	800	1000	V
Max. RMS Voltage	V _{RMS}	35	70	140	420	560	700	
Max. DC Blocking Voltage	V _{DC}	50	100	200	600	800	1000	
Max. Average Forward Rectified Current	I _{F(AV)}	1						A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I _{FSM}	30						
Max. Peak Reverse Current Full Cycle @T _A =75°C	I _{R(AV)}	30						µA
Max. Forward Voltage I _F = 1A	V _F	1			1.7			V
Max. Reverse Current T _A = 25°C	I _R	5						µA
Max. Reverse Recovery Time I _F = 0.5A I _R = 1.0A I _{RR} = 0.25A	T _{RR}	50			75			nS
Type Junction Capacitance V _R = 4.0V, f = 1MHz	C _J	15						pF
Typical Thermal Resistance	R _{θJA}	50						°C/W
Operating Temperature Range	T _J	-55 to +150						°C
Storage Temperature Range	T _{STG}							

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

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Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

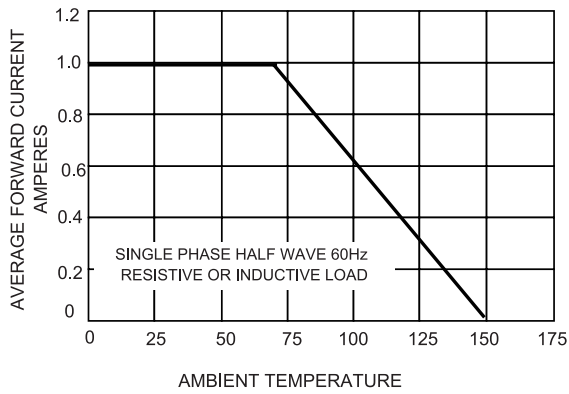


FIG. 2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

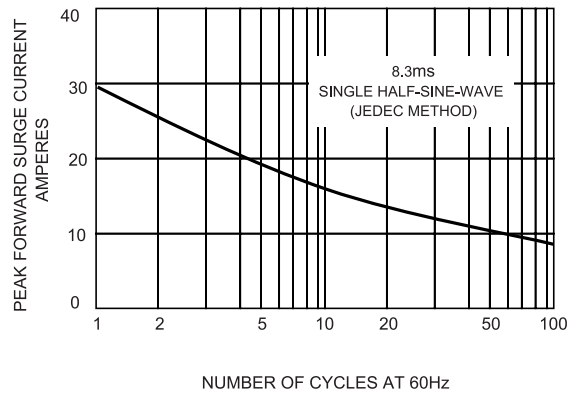


FIG.3 – TYPICAL JUNCTION CAPACITANCE

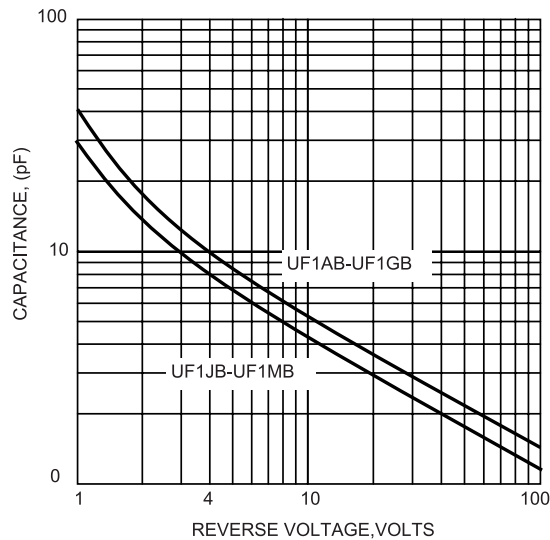


FIG.4-TYPICAL FORWARD CHARACTERISTICS

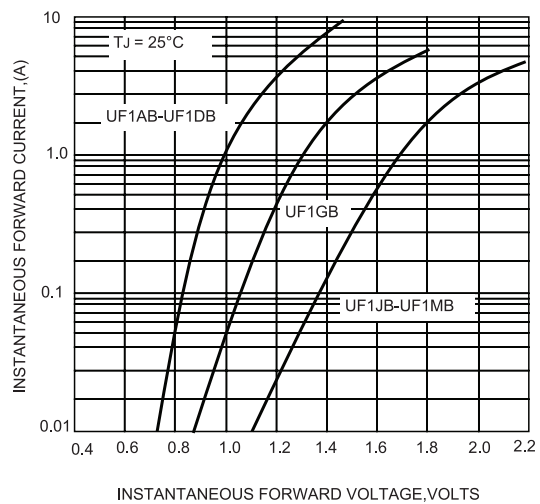
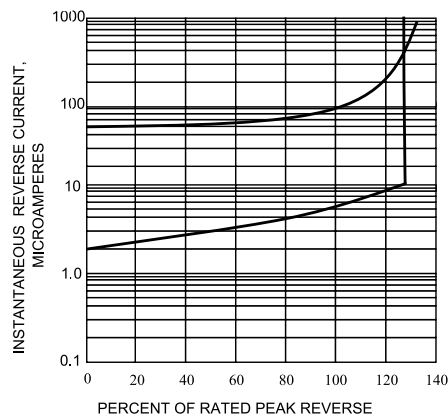


FIG.5-TYPIACL REVERSE CHARACTERISTICS

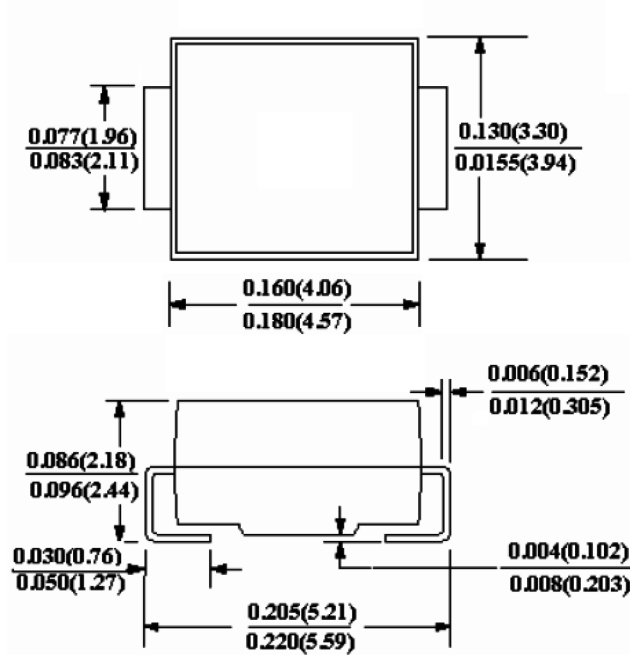


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Dimensions:

DO-214AA (SMB)



Dimensions : Inches (Millimetres)

Part Number Table

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

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