



UF2A thru UF2M

<p>SURFACE MOUNT GLASS ULTRA FAST RECTIFIERS</p>	<p>REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 2.0 Amperes</p>
<p>FEATURES</p> <ul style="list-style-type: none"> ● 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 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ● Case: Molded Plastic ● Polarity: Color band denotes cathode ● Weight: 0.003 ounces, 0.093 grams ● Mounting position: Any 	<p>SMB</p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>

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	UF2A	UF2B	UF2D	UF2G	UF2J	UF2K	UF2M	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =55 °C	I _(AV)	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	60							A
Peak Forward Voltage at 2.0A DC(Note1)	V _F	1.0		1.3		1.7			V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R	5.0 100							uA
Maximum Reverse Recovery Time(Note 1)	T _{RR}	50				75			nS
Typical Junction Capacitance (Note1)	C _J	50				30			pF
Typical Thermal Resistance (Note2)	R _{θJA}	25							°C/W
Operating Temperature Range	T _J	-50 to +150							°C
Storage Temperature Range	T _{STG}	-50 to +150							°C

NOTES: 1.Measured with I_F=0.5A, I_R=1A, I_{RR}=0.25A
 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
 3.Thermal resistance junction to ambient



RATING AND CHARACTERISTIC CURVES

UF2A thru UF2M



FIG. 1 – FORWARD CURRENT DERATING CURVE

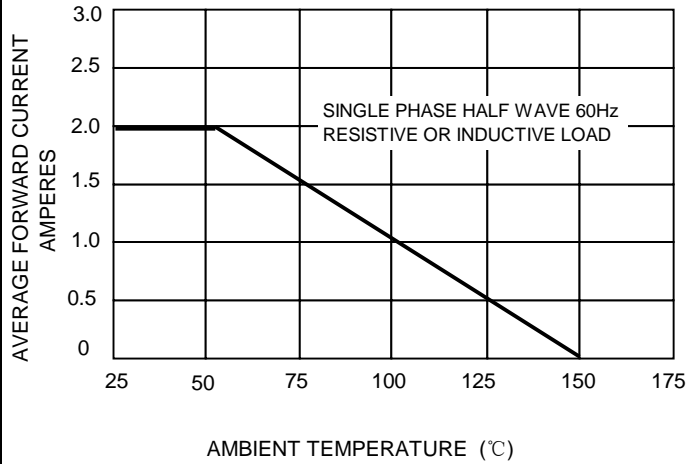


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

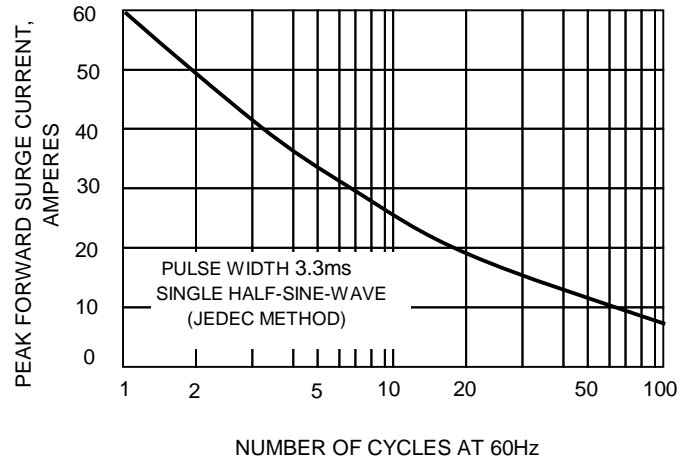


FIG.3 – TYPICAL JUNCTION CAPACITANCE

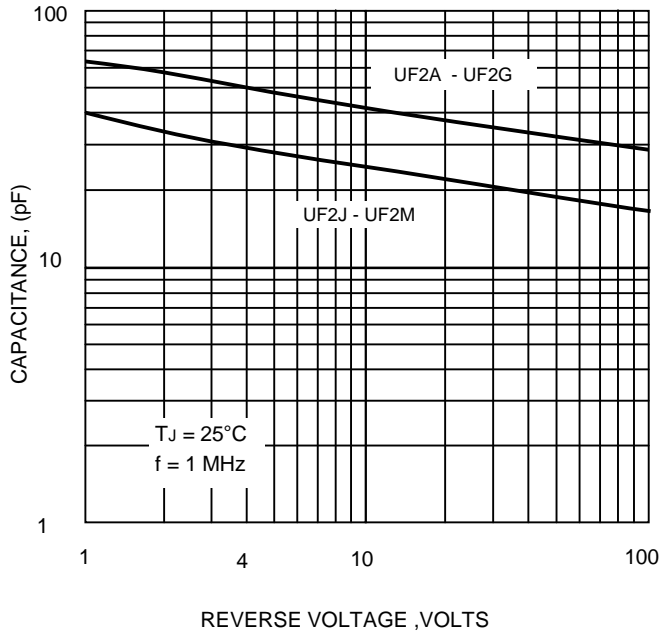


FIG.4-TYPICAL FORWARD CHARACTERISTICS

