

US2AF THRU US2MF

2.0 AMP SURFACE MOUNT HIGH EFFICIENCY RECTIFIERS

FEATURES

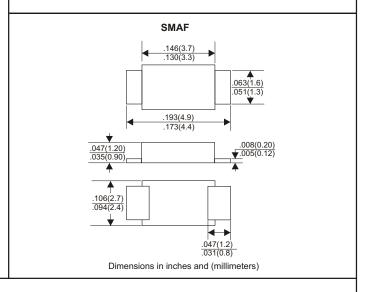
- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE 50 to 1000 Volts CURRENT

2.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	US2AF	US2BF	US2DF	US2EF	US2GF	US2JF	US2KF	US2MF	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current									
.375"(9.5mm) Lead Length at Ta=50 °C		2.0							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)		60						Α	
Maximum Instantaneous Forward Voltage at 2.0A	1.0			1	1.3		1.7		V
Maximum DC Reverse Current Ta=25°C		5.0						μΑ	
at Rated DC Blocking Voltage Ta=100°C		150							μΑ
Maximum Reverse Recovery Time (Note 1)		50 70						nS	
Typical Junction Capacitance (Note 2)		30							pF
Operating and Storage Temperature Range Тл, Тsтс		-65 — +150							°C

NOTES:

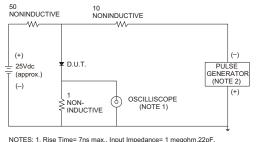
- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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RATING AND CHARACTERISTIC CURVES (US2AF THRU US2MF)

FIG.1-TYPICAL FORWARD **CHARACTERISTICS** 10 INSTANTANEOUS FORWARD CURRENT, (A) 1.0 .1 Tj=25℃ Pulse Width 300us 1% Duty Cycle .01 .001 .6 .8 1.0 1.2 1.4 FORWARD VOLTAGE,(V)

FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= /ns max., Input Impedance= 1 megohm.22

2. Rise Time= 10ns max., Source Impedance= 50 ohms

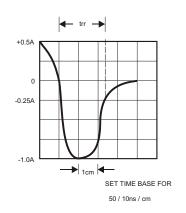


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

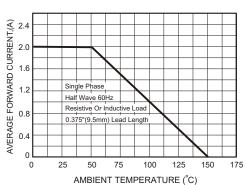


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

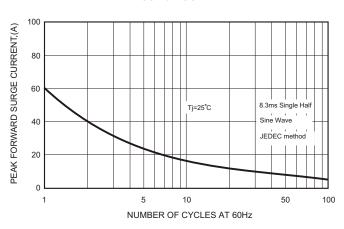
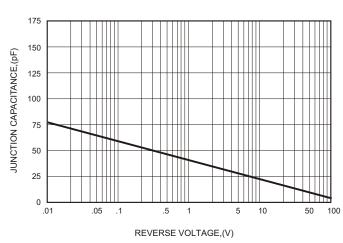


FIG.5-TYPICAL JUNCTION CAPACITANCE



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