

US3A THRU US3M

GOODWORK 3.0 AMP SURFACE MOUNT HIGH EFFICIENCY RECTIFIER



FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Fast switching speed

MECHANICAL DATA

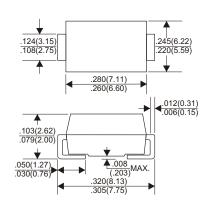
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.21 grams

VOLTAGE RANGE 50 to 1000 Volts

CURRENT

3.0 Ampere

DO-214AB(SMC)



Dimensions in inches and (millimeters)

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	US3A	US3B	US3D	US3E	US3G	US3J	US3K	US3M	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									
at Ta=55°C	3.0							Α	
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)	100							Α	
Maximum Instantaneous Forward Voltage at 3.0A	1.0			1	1.3		1.85		V
Maximum DC Reverse Current Ta=25°C	10						μА		
at Rated DC Blocking Voltage Ta=100°C	200							μА	
Maximum Reverse Recovery Time (Note 1)	50 75					nS			
Typical Junction Capacitance (Note 2)	75							pF	
Operating and Storage Temperature Range Τ _J , Τsτσ	-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 (US3A THRU US3M)

FIG.1-TYPICAL FORWARD

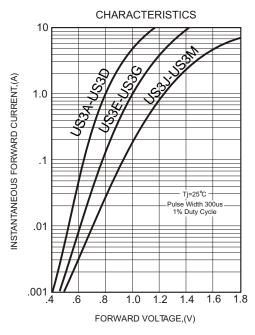
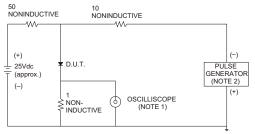


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF

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

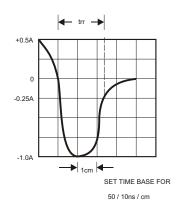


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

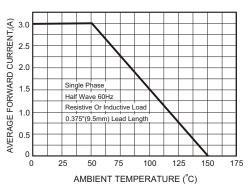


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

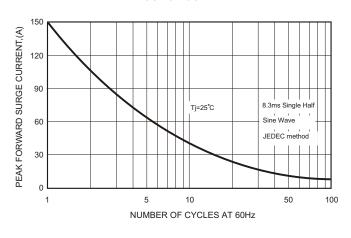
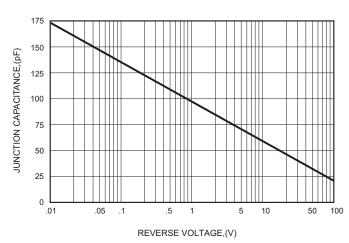


FIG.5-TYPICAL JUNCTION CAPACITANCE



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