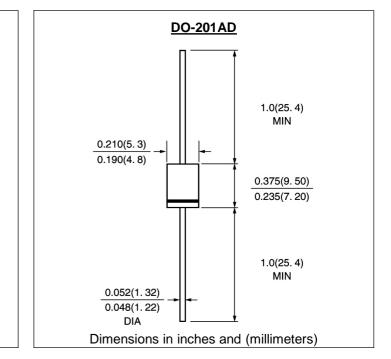
# SUF5400 THRU SUF5408

#### HIGH EFFICIENT PLASTIC SILICON RECTIFIER VOLTAGE:50 TO 1000V CURRENT: 3.0A



#### FEATURE Low power loss High surge capability Ultra-fast recovery time for high efficiency High temperature soldering guaranteed 250°C/10sec/0.375"lead length at 5 lbs tension



### MECHANICAL DATA

Terminal:Plated axial leads solderable per MIL-STD 202E, method 208C Case:Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy Polarity:color band denotes cathode Mounting position:any

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	SUF 5400	SUF 5401	SUF 5402	SUF 5404	SUF 5406	SUF 5407	SUF 5408	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =50°C	lf(av)	3.0						A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	200 150						A	
Maximum Forward Voltage at Forward current 3A Peak	Vf	1.0 1.4			1.7			V	
Maximum DC Reverse CurrentTa = $25^{\circ}$ Cat rated DC blocking voltageTa = $100^{\circ}$ C	lr	10.0 100.0						μΑ μΑ	
Maximum Reverse Recovery Time (Note 1)	Trr	50			75			nS	
Typical Junction Capacitance (Note 2)	Cj	70			50			pF	
Typical Thermal Resistance (Note 3)	R(ja)	15.0							°C/
Storage and Operating Junction Temperature	Tstg,Tj	-50 to +150							°C

Note:

- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

#### **RATINGS AND CHARACTERISTIC CURVES SUF5400 THRU SUF5408**

FIG. 1 - TYPICAL REVERSE CHARACTERISTICS

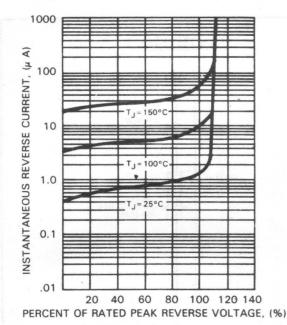
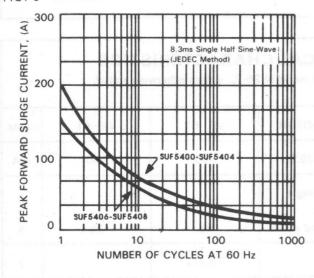


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CUI RENT



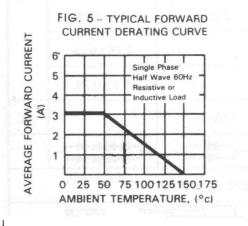


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

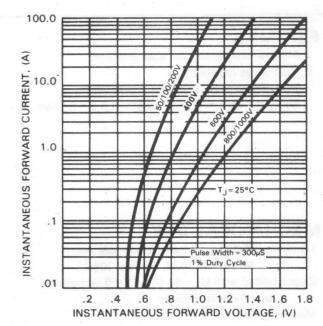


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

