

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	SUF 2001	SUF 2002	SUF 2003	SUF 2004	SUF 2005	SUF 2006	SUF 2007	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
Aximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
/laximum Average Forward Rectified Current 3/8'lead length at Ta =50°C	lf(av)				2.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	60.0						A	
Aaximum Forward Voltage at Forward current A Peak	Vf	1.0 1.4 1.7					V		
Maximum DC Reverse Current Ta =25°C					5.0				μA
at rated DC blocking voltage Ta =125°C	lr				100.0				μA
Maximum Reverse Recovery Time (Note 1)	Trr	50					75	, C	nS
Typical Junction Capacitance (Note 2)	Cj	30				20			pF
Typical Thermal Resistance (Note 3)	R(ja)	20.0				X	°C/W		
Storage and Operating Junction Temperature	Tstg,Tj			-6	5 to +15	50	S	7	°C
<u></u>	1						C)		

Note:

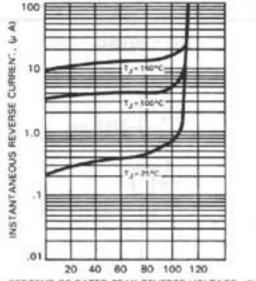
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

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

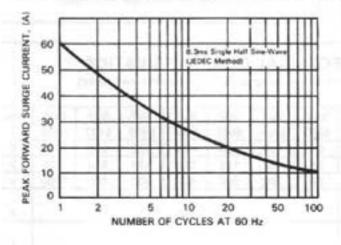
## RATINGS AND CHARACTERISTIC CURVES SUF2001 THRU SUF2007

## FIG. 1 - TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CL HRENT



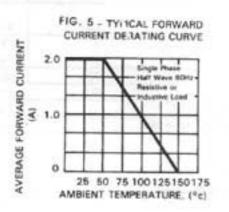


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

