SUF4001 THRU SUF4007

HIGH EFFICIENT PLASTIC SILICON RECTIFIER

VOLTAGE:50 TO 1000V CURRENT: 1.0A

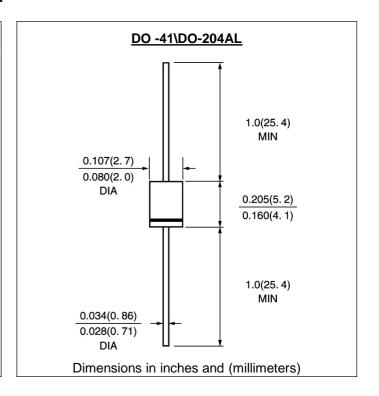


FEATURE

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)

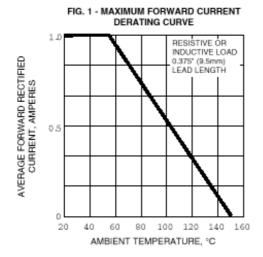
	SYMBOL	SUF	SUF	SUF	SUF	SUF	SUF	SUF	units
		4001	4002	4003	4004	4005	4006	4007	
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30.0							Α
Maximum Forward Voltage at Forward current 1A Peak	Vf		1.0		1.4		1.7		V
Maximum DC Reverse Current Ta =25°C		10.0						μΑ	
at rated DC blocking voltage Ta =100°C	Ir	100.0							μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	50			75			nS	
Typical Junction Capacitance (Note 2)	Cj	15			12			pF	
Typical Thermal Resistance (Note 3)	R(ja)	50			60			°C/W	
Storage and Operating Junction Temperature	Tstg,Tj	-50 to +125						°C	

Note:

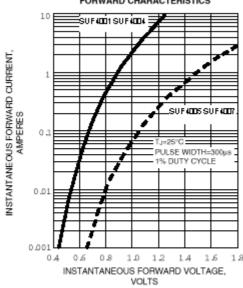
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

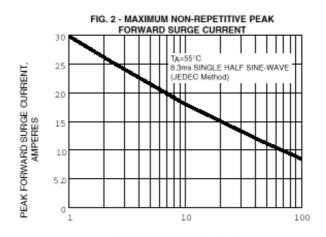
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RATINGS AND CHARACTERISTIC CURVES SUF4001 THRU SUF4007

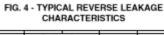


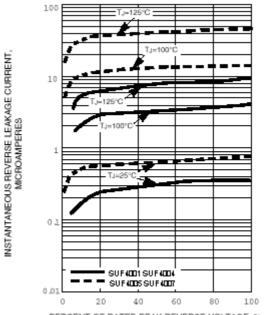






NUMBER OF CYCLES AT 60 Hz





PERCENT OF RATED PEAK REVERSE VOLTAGE, %

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