SF4001GP THRU SF4007GP

SINTERED GLASS JUNCTION FAST SWITCHING PLASTIC RECTIFIER VOLTAGE:50 TO 1000V CURRENT: 1.0A



FEATURE

High temperature metallurgically bonded construction Sintered glass cavity free junction Capability of meeting environmental standard of MIL-S-19500 High temperature soldering guaranteed 350°C /10sec/0.375"lead length at 5 lbs tension Operate at Ta =55°C with no thermal run away Typical Ir<0.2μA

MECHANICAL DATA

Low power loss, high efficient

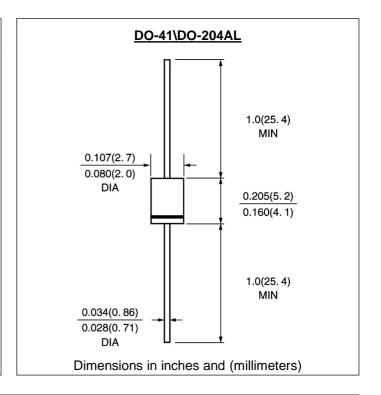
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

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)

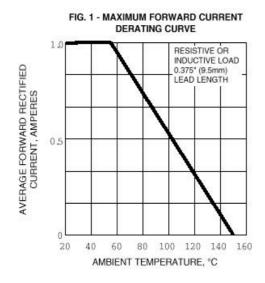
	SYMBOL	SF40	SF40	SF40	SF40	SF40	SF40	SF40	units
		01GP	02GP	03GP	04GP	05GP	06GP	07GP	
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified	If(av) 1.0							^	
Current 3/8"lead length at Ta =55°C	11.0						A		
Peak Forward Surge Current 8.3ms single	Ifsm	30						Α	
half sine-wave superimposed on rated load								/ /	
Maximum Forward Voltage at rated Forward	Vf	1.0					V		
Current and 25°C			•	-					
Maximum full load reverse current full cycle	Ir(av)	Ir(av) 50							
average at 55°C Ambient	ii(av)								μΑ
Maximum DC Reverse Current Ta = 25° C	Ir 10 50							μΑ	
at rated DC blocking voltage Ta =125°C							μΑ		
Maximum Reverse Recovery Time (Note 1)	Trr	50					75		nS
Typical Junction Capacitance (Note 2)	Cj	17					15		pF
Typical Thermal Resistance (Note 3)	R(ja)	50 60						°C	
Typical memalinesistance (Note 3)	ixija)	30 80						/W	
Storage and Operating Temperature Range	Tstg, Tj	-65 to +175							°C

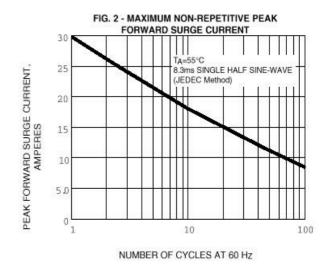
Note:

- 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

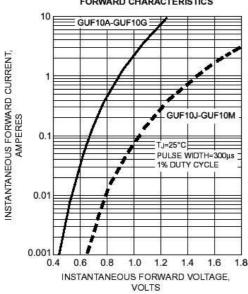
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RATINGS AND CHARACTERISTIC CURVES SF4001GP THRU SF4007GP

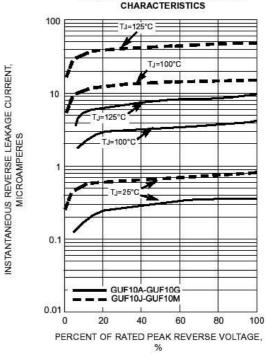


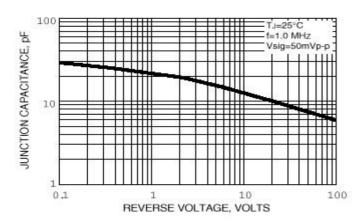












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