



查询SFR601供应商

SFR601 THRU SFR607

捷多邦, 专业PCB打样工厂, 24小时加急出货

6.0 AMPS. SOFT FAST RECOVERY RECTIFIERS

FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

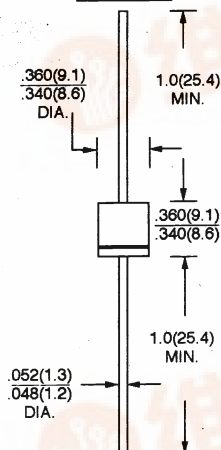
MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any
- * Weight: 2.0 grams

VOLTAGE RANGE

50 to 1000 Volts
CURRENT
6.0 Amperes

P600



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	SFR 601	SFR 602	SFR 603	SFR 604	SFR 605	SFR 606	SFR 607	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Maximum D. C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current .375"(9.5mm) lead length @ $T_A = 55^{\circ}\text{C}$	$I_{F(AV)}$	6.0							A	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	200							A	
Maximum Instantaneous Forward Voltage at 6.0A	V_F	1.2							V	
Maximum D. C Reverse Current @ $T_A = 25^{\circ}\text{C}$ at Rated D. C Blocking Voltage @ $T_A = 100^{\circ}\text{C}$	I_R	10.0 200							μA μA	
Maximum Reverse Recovery Time (Note 1)	T_{RR}	120				200		350		nS
Typical Junction Capacitance (Note 2)	C_J	100							pF	
Operating Temperature Range	T_J	- 65 to + 125							$^{\circ}\text{C}$	
Storage Temperature Range	T_{STG}	- 65 to + 150							$^{\circ}\text{C}$	

NOTES: 1. Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $t_{RR} = 0.25\text{A}$.

2. Measured at 1 MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES (SFR601 THRU SFR607)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

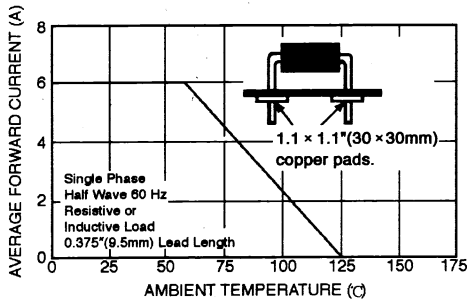


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

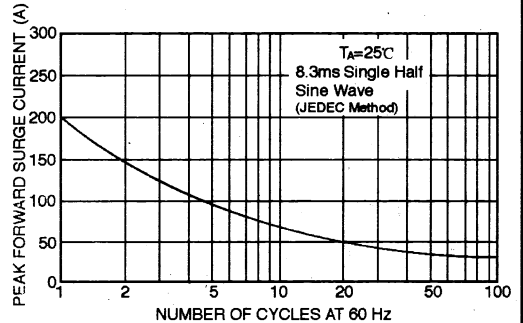


FIG.3-TYPICAL FORWARD CHARACTERISTICS

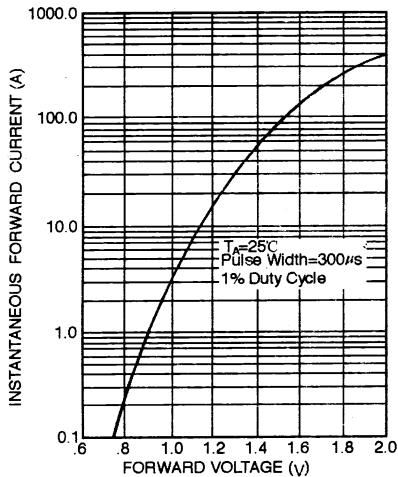


FIG.4-TYPICAL JUNCTION CAPACITANCE

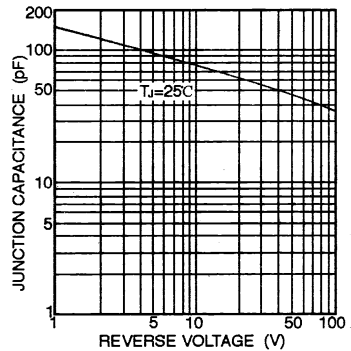


FIG.5 TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS

