

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

	SYMBOLS	S07A	S07B	S07D	S07G	S07J	S07K	S07M	UNITS
		SA	SB	SD	SG	SJ	SK	SM	
Maximum repetitive 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	l(AV)	0.7							A
at T∟=130°C (NOTE 1)	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM 25.0							A	
rated load									
Maximum instantaneous forward voltage at 1.0A	Vf	1.1							V
Maximum DC reverse current Ta=25℃		10.0 50.0							μΑ
at rated DC blocking voltage Ta=125℃	lr								
Typical junction capacitance (NOTE 2)	Сл	4							pF
Typical thermal resistance (NOTE 3)	Reja	95							°C/W
Operating junction and storage temperature range	Т,,Тѕтс	-55 to +150							°C

Note: 1. Averaged over any 20ms period.

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

3.PCB mounted on 0.2*0.2" (5.0*5.0mm) coppeer pad area.



RATINGS AND CHARACTERISTIC CURVES S07A THRU S07M

FIG.1 - TYPICAL FORWARD CHARACTERISTIC

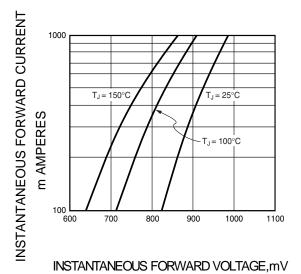
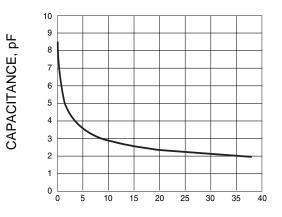
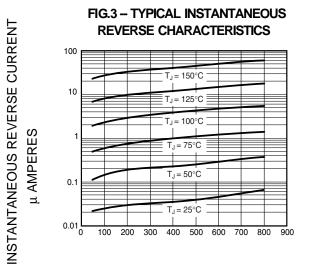


FIG.2 - TYPICAL JUNCTION CAPACITANCE

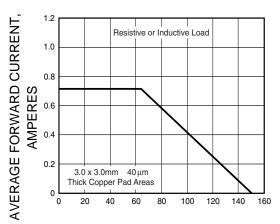


REVERSE VOLTAGE, VOLTS



INSTANTANEOUS REVERSE VOLTAGE,V

FIG.4 - FORWARD DERATING CURVE



AMBIENT TEMPERATURE, °C

