

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	RS07A RS0	RS07B	3 RS07D	RS07G	RS07J	RS07K	RS07M	UNITS
		RA	RB	RD	RG	RJ	RK	RM	
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 at Ta=110°C (NOTE 1)	l(AV)	0.7							А
Peak forward surge current									
8.3ms single half sine-wave superimposed on	Ігѕм	25.0							A
rated load									
Maximum instantaneous forward voltage at 0.7A	Vf	1.15							V
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lr	10.0 50.0							μA
Maximum reverse recovery time (NOTE 2)	trr	150 250			250	500		ns	
Typical junction capacitance (NOTE 3)	CJ	4							pF
Typical thermal resistance (NOTE 4)	Rθja	95						K/W	
Operating junction and storage temperature range	Т _Ј ,Тstg	-55 to +150							°C

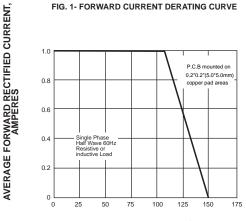
Note: 1. Averaged over any 20ms period.

2.Measured with IF=0.5A, IR=1A, Irr=0.25A.

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

4.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES RS07A THRU RS07M



LEAD TEMPERATURE, °C

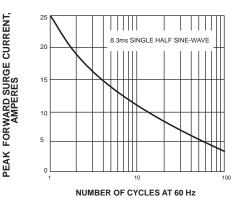
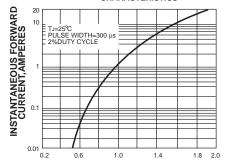


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD

SURGE CURRENT

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FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

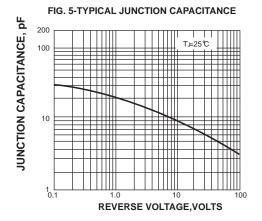


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

