

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 $^\circ\!\!\!{\rm C}$ ambient temperature unless otherwise specified. Single phase,half wave,60Hz,resistiver or inductive load. For capacitive load, derate current by 20%

Type Number		SM4001	SM4002	SM4003	SM4004	SM4005	SM4006	SM4007	UNITS
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 @TA = 75 $^\circ\! \mathbb{C}$	IF(AV)	1.0						А	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30						A	
Maximum Instantaneous Forward Voltage @1.0A	VF	1.1						V	
Maximum DC Reverse Current@ TA=25°Cat rated DC blocking voltage@ TA=125°C	IR	5.0 100							μA
Typical Thermal Resistance (Note)	RθJC	50							°C /W
Operating Temperature Range	ιT	-65 to +150							°C
Storage Temperature Range	Tstg	-65 to +150							°C

NOTE: Thermal Resistance from Junction to case. Mount on 0.2" x 0.2" Cu-pad on P.C.B.

RATING AND CHARACTERISTIC CURVES SM4001 THRU SM4007

