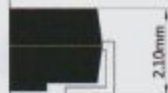


SMAF



SMA (G)



SMA (X)



ISO9001质量管理体系 注册编号: 00312Q20185R0M  
ISO14001环境管理体系 注册编号: 00312E10075R0M

## 产品规格

### 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	STD 1A	STD 2A	FR 1A	FR 2A	UR 1A	UR 2A	SF 1A	SF 2A	SKY 1A	SKY 2A	SKY 3A	SKY 5A	UINTS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50~1000	50~1000	50~1000	50~1000	50~1000	50~600	50~600	50~600	20~200	20~200	20~200	20~200	Volts
Maximum RMS voltage	$V_{RMS}$	35~700	35~700	35~700	35~700	35~700	35~420	35~420	35~420	14~140	14~140	14~140	14~140	Volts
Maximum DC blocking voltage	$V_{DC}$	50~1000	50~1000	50~1000	50~1000	50~1000	50~600	50~600	50~600	20~200	20~200	20~200	20~200	Volts
Maximum average forward rectified current at $T_A=65^\circ\text{C}$ (NOTE 1)	$I_{AVG}$	1.0	2.0	1.0	2.0	1.0	2.0	1.0	2.0	1.0	2.0	3.0	5.0	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) $T_L=25^\circ\text{C}$	$I_{FSM}$	30	60.0	30.0	50.0	30.0	50.0	30.0	50.0	30.0	50.0	80.0	150.0	Amps
Maximum instantaneous forward voltage	$V_F$	1.1	1.1	1.3	1.3	1.0~1.7	1.0~1.7	0.95~1.70	0.95~1.70	0.45~0.95	0.55~0.95	0.55~0.95	0.55~0.95	Volts
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	$I_R$	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.2~0.5 2.0~10.0	0.2~0.5 2.0~10.0	0.2~0.5 2.0~20.0	0.2~0.5 2.0~20.0	$\mu\text{A}$ (SKY: mA)
Maximum reverse recovery time (NOTE 2)	$T_{rr}$			150~500	150~500	50~75	50~75	35	35	4	4	4	4	ns
Operating junction temperature range	$T_J$	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +125	-65 to +150	$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	-65 to +150	$^\circ\text{C}$

Note: 1. Averaged over any 20ms period.  
2. Measured with  $I_F=0.5\text{A}$ ,  $I_R=1\text{A}$ ,  $I_{rr}=0.25\text{A}$ .