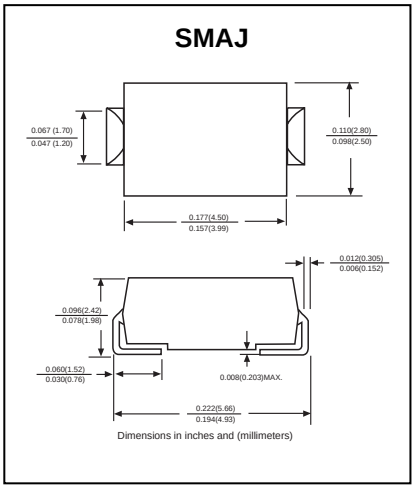
S1A-S1M

50~1000V-1A General Purpose Rectifier

S1A-S1M General Purpose Rectifier



Feature

- I_O 1A
- V_{RRM} 50V-1000V
- Low reverse leakage
- High surge current capability

Application

- Rectifier

Application

- S1X
  X : From A To M

ABSOLUTE MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Parameter	Symbol	S1							Unit
		A	B	D	G	J	K	M	
Repetitive 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
Average Forward Current 60Hz Half-sine wave, Resistance load, T_a=75℃	$I_{F(AV)}$	1							A
Non-repetitive Peak Forward Surge Current 60Hz Half-sine wave ,1 cycle ,Ta =25℃	I_{FSM}	30							A
Junction Temperature	T_J	-55 ~ +150							℃
Storage Temperature	T_{STG}	-55 ~ +150							℃

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise noted)

Parameter	Symbol	Test Condition		S1							Unit
				A	B	D	G	J	K	M	
Peak Forward voltage	V_{FM}	I_F=1A		1							V
Peak Reverse Current	I_{RRM1}	V_{RM}=V_{RRM}	T_a=25℃	5							uA
	I_{RRM2}		T_a=125℃	50							uA
Thermal Resistance (Typical)	$R_{\theta J-A}$	Between junction and ambient		55							℃/W
	$R_{\theta J-L}$	Between junction and lead		25							℃/W

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copperpad areas .

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

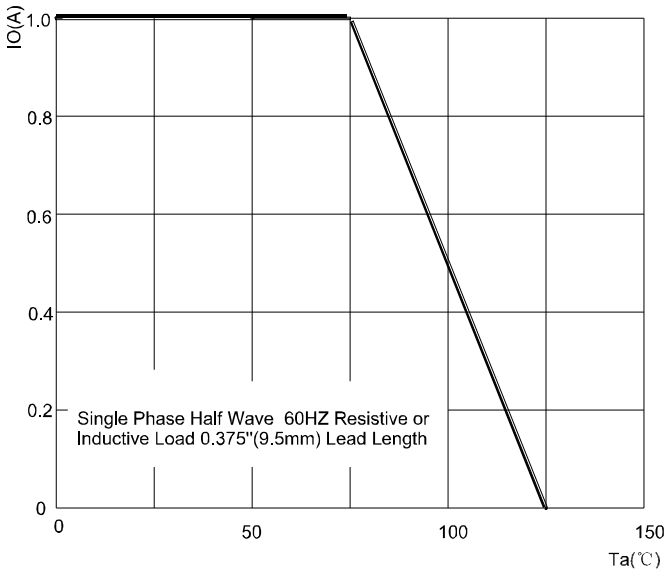


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

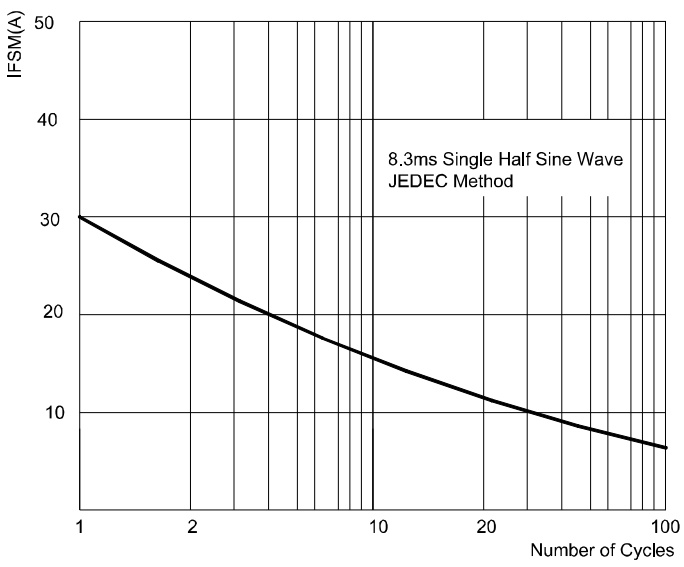


FIG.3: TYPICAL FORWARD CHARACTERISTICS

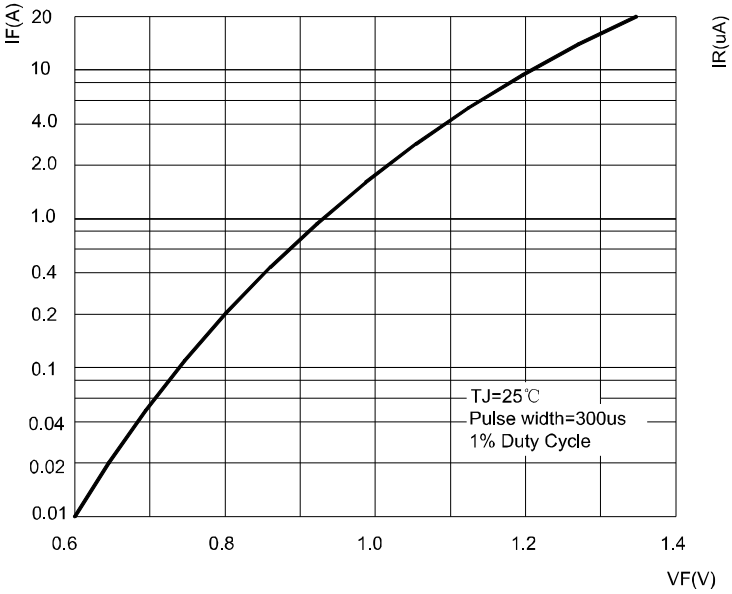


FIG.4:TYPICAL REVERSE CHARACTERISTICS