Kingtronics®

S2AA THRU S2MA

FEATURE

Plastic package has underwrites laboratory flammability

Classification 94V-0

For surface mounted applications

Low profile package

Built-in strain relief, ideal for automated placement

Glass Passivated chip junction

High temperature soldering guaranteed

250°C/10 second at terminals

MECHANICAL DATA

Case: JEDED SMA molded plastic over glass

passivated chip

Terminals: Solder plated, Solderable per MIL-STD-750,

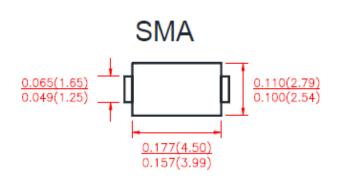
method 2026

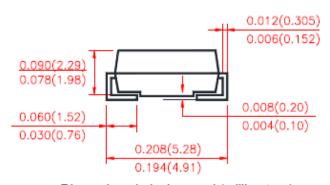
Polarity: Color band denotes cathode end

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere

SURFACE MOUNT GLASS PASSIVATED RECTIFIER





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

TYPE NUMBER	Symbol	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _L	IE				2.0				Amno
=100℃	IF _(AV)					Amps			
Peak Forward Surge Current									
8.3ms single half sine-wave superimposed on rated	IFSM				50				Amps
load (JEDEC method) $T_L \text{=} 100^{\circ}\text{C}$									
Typical Thermal Resistance (NOTE 1)	RөJA	Reja 53							- °C/W
	RθJL	_	_	_	16	_	_		CIVV
Operating and Storage Temperature Range	TJ,TSTG				-55 to +150				°C

Kingtronics® International Company

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ELECTRICAL CHARACTERISTICS

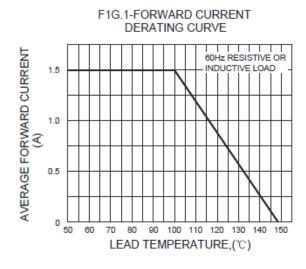
		Symbol	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	UNITS		
Maximum Instantaneous Forward Voltage at 1.5A		V _F	1.10						Volts			
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25°C	- I _R				5.0				μA		
	T _A = 125℃					200				- μΑ		
Typical Reverse Recovery Time at IF=0.5A, IR=1.0A, IRR=0.25A,		Trr	2.5						μs			
		111		2.0								
Typical junction capacitance at 4.0V, 1MHz		CJ				30				pF		

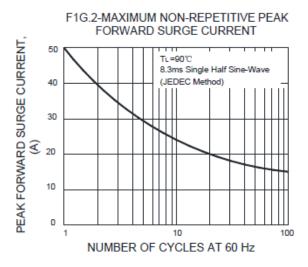
Notes:

1. Thermal resistance from Junction to ambient and from junction to lead mounted on

P.C.B.with 0.3×0.3"(8.0 × 8.0mm) copper pad areas.

RATINGS AND CHARACTERISTIC CURVES



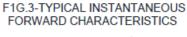


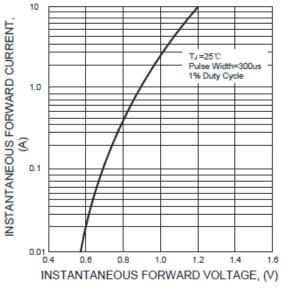
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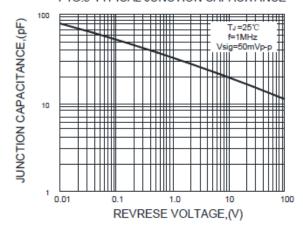
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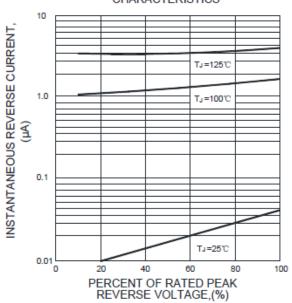




F1G.5-TYPICAL JUNCTION CAPACITANCE



F1G.4-TYPICAL REVERSE CHARACTERISTICS



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