

S2AA thru S2MA

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.5 Amperes

FEATURES

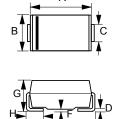
- Glass passivated chip
- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

• Case : Molded plastic

Polarity: Indicated by cathode band
Terminal: solder plated coppper
Weight: 0.002 ounces, 0.064 grams

SMA



SMA								
DIM.	MIN.	MAX.						
Α	4.06	4.57						
В	2.29	2.92						
С	1.27	1.63						
D	0.15	0.31						
Е	4.83	5.59						
F	0.05	0.20						
G	2.01	2.40						
Н	0.76	1.52						
All Dimensions in millimeter								

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	UNIT
Maximum Recurrent 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 @TL =100°C	l(AV)	1.5							Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	İFSM	50						А	
Maximum forward Voltage at 1.5A DC	VF	1.15						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =125°C	lR	5.0 125						uA	
Typical Reverse Recovery Time (Note 1)	T _{RR}				1500				ns
I ² t Rating for fusing (t < 8.3ms)	l² t				10.5				A ² S
Typical Junction Capacitance (Note 2)	Cı				20				pF
Typical Thermal Resistance (Note 3)	Rejl				20				°C/W
Operating Temperature Range	TJ			-	55 to +150)			°C
Storage Temperature Range	Тѕтс			-	55 to +150)			°C

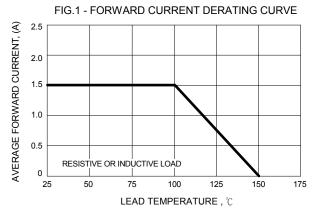
NOTES: 1.Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

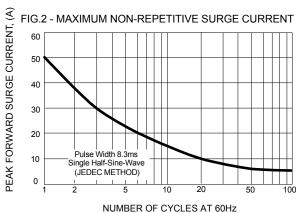
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

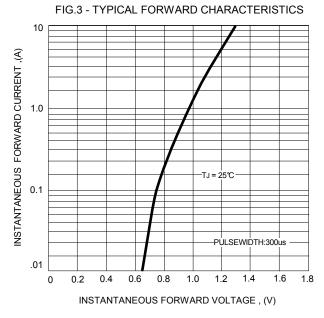
3. Thermal Resistance Junction to Lead.

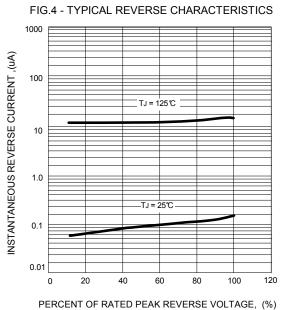
REV. 6, Jun-2014, KSDA02













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