

S2A thru S2M

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

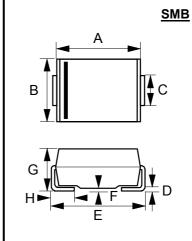
REVERSE VOLTAGE -50 to 1000 Volts FORWARD CURRENT - 1.5 Amperes

FEATURES

- · Glass passivated chip
- For surface mounted applications
- Low reverse leakage current
- · Low forward voltage drop
- · High current capability

MECHANICAL DATA

- · Case: Molded plastic
- Case Material molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Polarity: Color band denotes cathode
- Weight: 0.003 ounces, 0.093 grams



SMB						
DIM.	MIN.	MAX				
Α	4.06	4.57				
В	3.30	3.94				
С	1.96	2.21				
D	0.15	0.31				
Ε	5.21	5.59				
F	0.05	0.20				
G	2.01	2.50				
Н	0.76	1.52				
All dimension in millimeter						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current @ T _L =100°C		I _(AV)	1.5					Α		
Peak forward surge current single half sine-wave superimposed on rated load. (JDEEC METHOD)	@ 8.3ms @ 1ms	I _{FSM}	50 100				А			
I 2 t rating for fusing (1ms \leq t \leq 8.3ms)		I²t	10.4						A ² S	
Typical junction capacitance (Note1)		Сл	20					pF		
Operation and storage temperature range		T _J ,T _{STG}	-55 to +150					°C		

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		ARAMETER TEST CONDITIONS			MAX.	UNIT
Forward voltage	IF=1.5A	T _J =25°C	V_{F}	1.15	V		
Leakage current	VR rated	T _J =25°C T _J =125°C	I _R	5.0 125	uA		

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance (Note2)	RthJ∟	20	°C/W

DYNAMIC ELECTRICAL CHARACTERISTICS

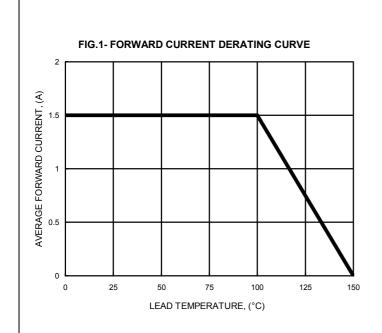
PARAMETER	TEST CONDITIONS	SYMBOL	TYP.		
Reverse recovery time	IF= 0.5A, Irr= 0.25A, IR =1.0A	T_{RR}	1500		
Note:	REV. 8, DEC2014, KS	DB02			

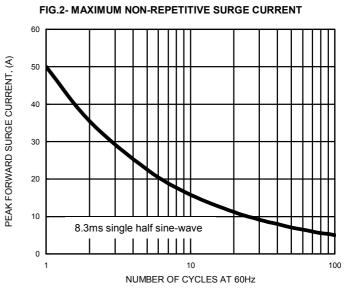
(1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

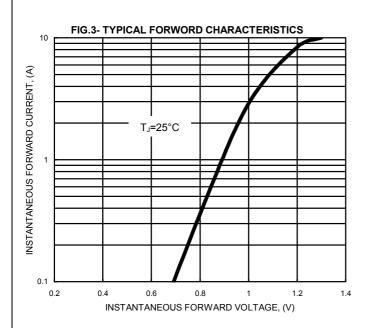
(2) Thermal resistance junction to lead.

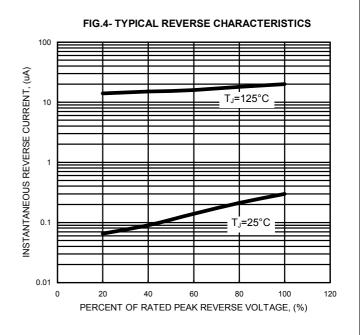
RATING AND CHARACTERISTIC CURVES S2A thru S2M













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