

S3A thru S3M

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

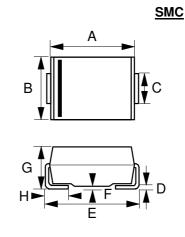
REVERSE VOLTAGE – 50 to 1000 Volts FORWARD CURRENT – 3.0 Amperes

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 cathodeWeight: 0.246 grams (Approximate)



SMC						
DIM.	MIN.	MAX				
Α	6.60	7.11				
В	5.59	6.22				
С	2.92	3.18				
D	0.15	0.31				
Е	7.75	8.13				
F	0.05	0.20				
G	2.01	2.40				
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	S3A	S3B	S3D	S3G	S3J	S3K	S3M	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 =75°C	I _(AV)				3.0				Α
Peak forward surge current 8.3ms single half @T_=25°C sine-wave superimposed on rated load @T_=125°C	I _{FSM}				120 100				Α
Peak forward surge current 1ms single half @T_=25°C sine-wave superimposed on rated load @T_=125°C	I _{FSM}				240 200				Α
1^2 t rating for fusing (t = 8.3 ms)	l²t				59.8				A ² S
Typical junction capacitance (Note 1)	CJ				40				pF
Operation and storage temperature range	T_J , T_{STG}	-55 to +150					°C		

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		TEST CONDITIONS		SYMBOL	MAX.	UNIT
Forward voltage	I _F = 3.0A	T _J =25°C	V _F	1.15	V		
Leakage current	V _R at rated	T _J =25°C T _J =125°C	I _R	10 250	uA		

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance (Note 2)	RthJ _A	50	°C/W
Typical trieffilal resistance (Note 2)	RthJ∟	10	C/VV

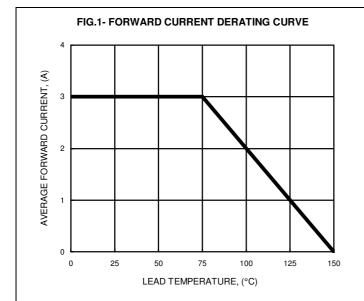
DYNAMIC ELECTRICAL CHARACTERISTICS

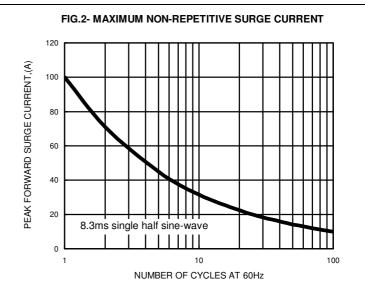
PARAMETER	TEST CONDITIONS	SYMBOL	TYP.		
Reverse recovery time	I _F = 0.5A, I _{RR} = 0.25A, I _R =1.0A	T _{RR}	2000		
Note:	REV. 10, Nov2016, KS	DC01			

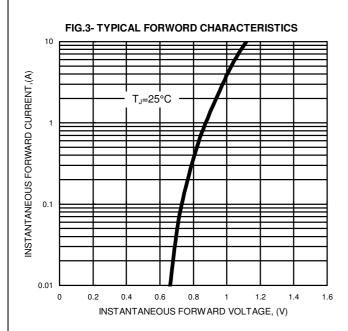
- (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance junction to ambient and lead.

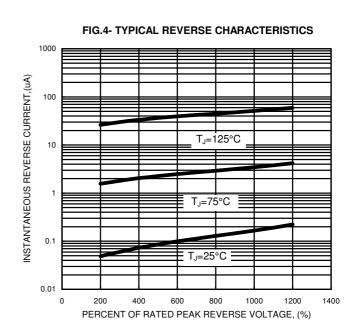
RATING AND CHARACTERISTIC CURVES S3A thru S3M













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