

FS1A thru FS1J

SURFACE MOUNT SUPER FAST RECTIFIERS

REVERSE VOLTAGE - 50 to 600 Volts FORWARD CURRENT - 1.0 Ampere

FEATURES

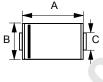
- Glass passivated chip
- Super fast switching for high efficiency
- For surface mounted applications
- Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

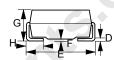
MECHANICAL DATA

• Case : Molded plastic

Polarity : Indicated by cathode bandWeight : 0.002 ounces, 0.064 grams

SMA





SMA							
DIM.	MIN.	MAX.					
A	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.

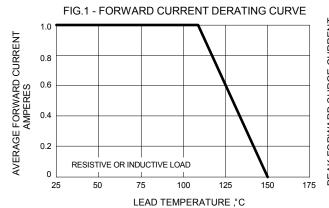
CHARACTERISTICS	SYMBOL	FS1A	FS1B	FS1C	FS1D	FS1G	FS1J	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	400	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	280	420	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	400	600	V
Maximum Average Forward Rectified Current @TL =110°C	I(AV)	1.0					А	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSM	30					A	
Maximum forward Voltage @ IF = 1.0A	VF	0.92 1.25 1.3				1.3	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =125°C	lR	5.0 200						uA
Maximum Reverse Recovery Time (Note 1)	TRR	35 50					ns	
Typical Junction Capacitance (Note 2)	Сл	10					pF	
Typical Thermal Resistance (Note 3)	Rejl	25			°C/W			
Operating Temperature Range	TJ	-55 to +150			℃			
Storage Temperature Range	Тѕтс	-55 to +150			°C			

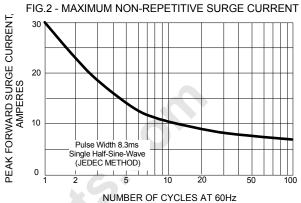
NOTES: 1. Reverse Recovery Test Conditions: IF=0.5A,IR=1.0A,IRR=0.25A.

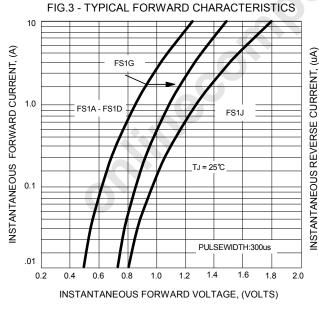
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal Resistance junction to Lead.

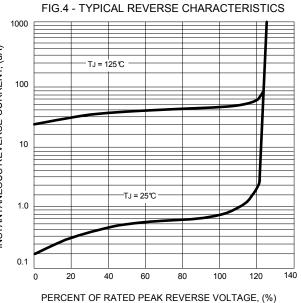
REV. 3, Sep-2010, KSGA07













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