

FS2A thru FS2J

SURFACE MOUNT SUPER FAST RECTIFIERS

REVERSE VOLTAGE - **50** to **600** Volts FORWARD CURRENT - **2.0** Amperes

FEATURES

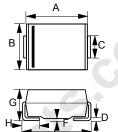
- Glass passivated chip
- Super fast switching for high efficiency
- For surface mounted applications
- Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

• Case : Molded plastic

Polarity: Color band denotes cathodeWeight: 0.003 ounces, 0.093 grams

SMB



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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	FS2A	FS2B	FS2C	FS2D	FS2G	FS2J	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)	2.0						А
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSM	50					А	
Maximum forward Voltage at 2.0A DC	VF	0.92 1.25 1.3				1.3	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ = 125°C	lR	5.0 350						uA
Maximum Reverse Recovery Time (Note 1)	TRR	35 50					ns	
Typical Junction Capacitance (Note 2)	Сл	25					pF	
Typical Thermal Resistance (Note 3)	Rejl	20					°C/W	
Operating Temperature Range	TJ	-55 to +150					℃	
Storage Temperature Range	Тѕтс	-55 to +150					°C	

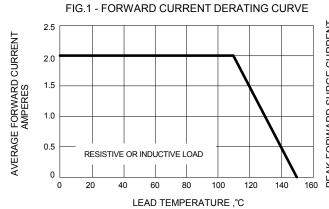
NOTES: 1.Reverse Recovery Test Conditions: IF=0.5A,IR=1.0A,IRR=0.25A.

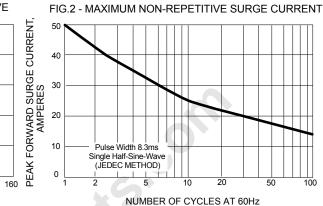
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

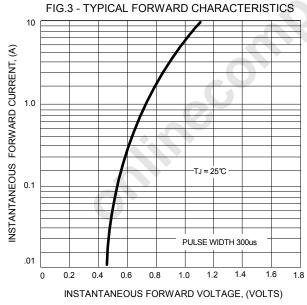
3. Thermal Resistance junction to Lead.

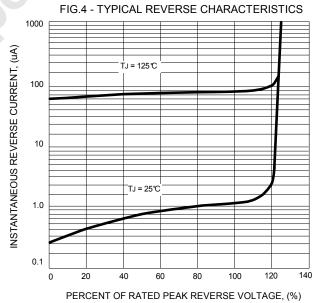
REV. 2, Sep-2010, KSGB05













Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.