

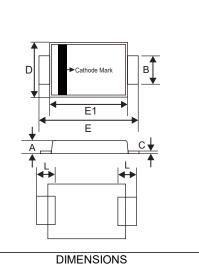
Features

- Halogen Free. "Green" Device (Note 1)
- Fast Reverse Recovery Time
- Glass Passivated Chip Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

D		Value								
Parameter	Symbol	FS 2AFL	FS 2BFL	FS 2DFL	FS 2GFL	FS 2JFL	FS 2KFL	FS 2MFL	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}									
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V	
DC Blocking Voltage	V_{R}									
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V	
Average Rectified Forward Current @ T _L =100°C	I _{F(AV)}				2				A	
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}				50				A	
Non-Repetitive Peak Surge Current @ 1ms Square Wave	'FSM		100					~		
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.375					A ² s			

2 Amp Fast Recovery Rectifier 50 to 1000 Volts



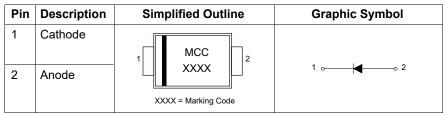
DO-221AC(SMA-FL)

DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
DIV	MIN	1IN MAX		MAX	NOTE	
Α	0.035	0.049	0.90	1.25		
В	0.049	0.065	1.25	1.65		
С	0.004	0.016	0.10	0.40		
D	0.089	0.116	2.25	2.95		
E	0.173	0.220	4.40	5.60		
E1	0.126	0.181	3.20	4.60		
L	0.020	0.059	0.50	1.50		

Marking Code

Part Number	Marking Code			
FS2AFL	FS2A			
FS2BFL	FS2B			
FS2DFL	FS2D			
FS2GFL	FS2G			
FS2JFL	FS2J			
FS2KFL	FS2K			
FS2MFL	FS2M			

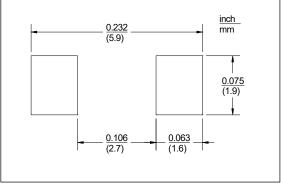
Internal Structure



Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		70		°C/W

Note:

1.Mounted on P.C.B. with 8mm*8mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	VF	I _F =2A;T _J =25°C			1.30	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	μA
Reverse Recovery Time FS2AFL~FS2GFL FS2JFL FS2KFL~FS2MFL	t _{rr}	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A;T _J =25°C			150 250 500	ns
Junction Capacitance FS2AFL~FS2GFL FS2JFL~FS2MFL	CJ	V _R =4V;f=1MHz;T _J =25°C		18 11		pF





Curve Characteristics



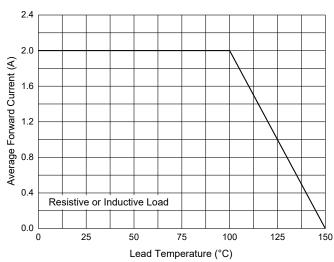


Fig. 3 - Typical Forward Characteristics

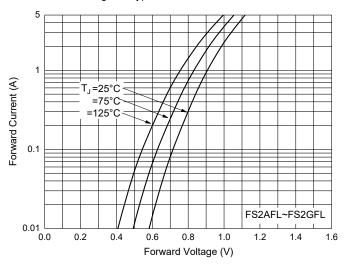
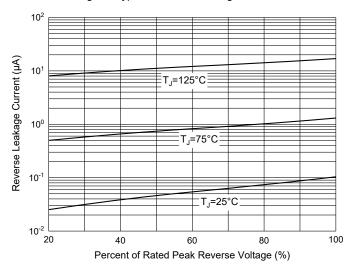


Fig. 5 - Typical Reverse Leakage Characteristics



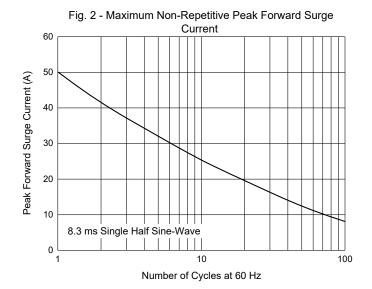


Fig. 4 - Typical Forward Characteristics

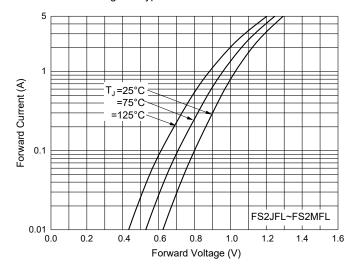
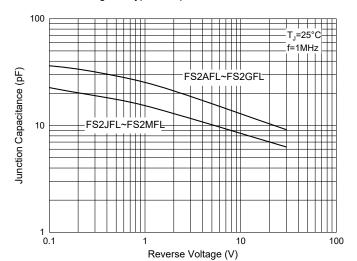


Fig. 6 - Typical Capacitance Characteristics





Ordering Information

Device	Packing			
Part Number-TP	Tape&Reel:10Kpcs/Reel			

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages. *Micro Commercial Components Corp*. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.