

Features

- Halogen Free. "Green" Device (Note 1)
- High Current CapabilityLow Profile Package
- 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)

Devenueter	Symbol	Value						11	
Parameter S		SS 22FL	SS 23FL	SS 24FL	SS 25FL	SS 26FL	SS 28FL	SS 210FL	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	20	30	40	50	60	80	100	V
DC Blocking Voltage	V_{R}								
RMS Reverse Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Average Rectified Forward Current	I _{F(AV)}	2			А				
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	50			A				
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.375			A ² s				

Marking code

Part Number	Marking Code	
SS22FL	SS22	
SS23FL	SS23	
SS24FL	SS24	
SS25FL	SS25	
SS26FL	SS26	
SS28FL	SS28	
SS210FL	SS210	

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode	XXXX = Marking code	1 o 0 2

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.

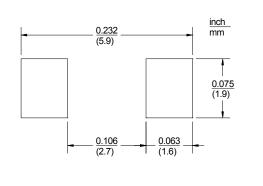
& Amp GifZJWYFA cibh GWYchh_mFYWMJZJYf &0 to 100 Volts

Cathode Mark

DO-221AC(SMA-FL)

DIMENSIONS						
DIM INCHES		Μ	М	NOTE		
DIN	MIN	MAX	MIN	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		

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range	SS22FL~SS24FL	-55		125	°C
TJ	Operating Junction Temperature Range	SS25FL~SS210FL	-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		18		°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						
SS22FL~SS24FL	VF	I _F =2A;T _J =25°C			0.50	V
SS25FL~SS26FL					0.70	
SS28FL~SS210FL					0.85	
Reverse Current						
SS22FL~SS26FL	I _R	at Rated V _R ;T _J =25°C			0.1	mA
		at Rated V _R ;T _J =125°C			20	
SS28FL~SS210FL		at Rated V _R ;T _J =25°C			0.01	
		at Rated V _R ;T _J =125°C			5	
Junction Capacitance						
SS22FL~SS24FL	CJ	V _R =4V;f=1MHz;T _J =25°C		125		pF
SS25FL~SS26FL				90		
SS28FL~SS210FL				60		



Curve Characteristics

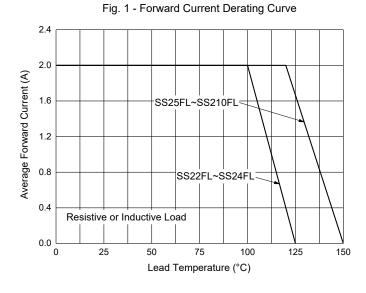


Fig. 3 - Typical Forward Characteristics

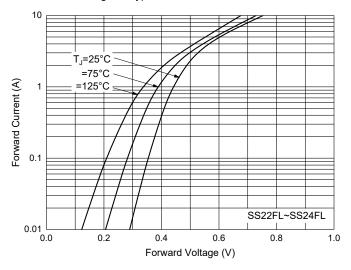
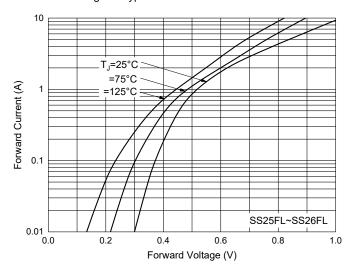


Fig. 5 - Typical Forward Characteristics



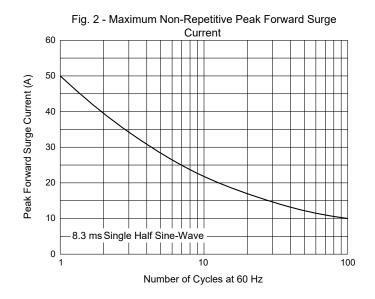


Fig. 4 - Typical Reverse Leakage Characteristics

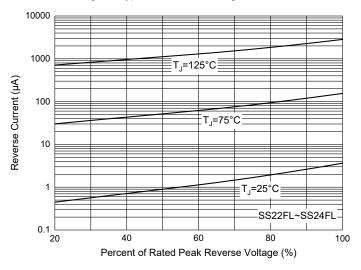
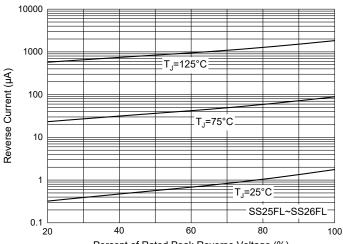


Fig. 6 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)



Curve Characteristics

Fig. 7 - Typical Forward Characteristics

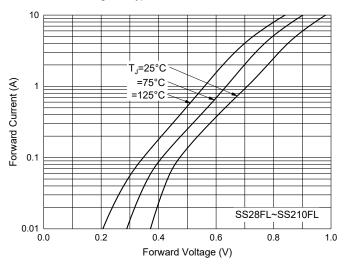
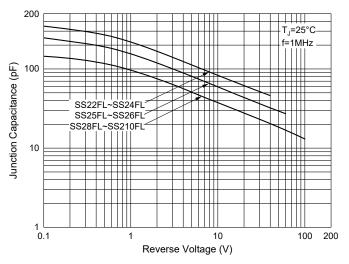


Fig. 9 - Typical Capacitance Characteristics



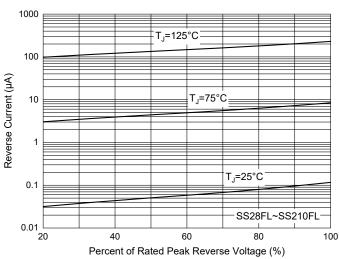


Fig. 8 - Typical Reverse Leakage Characteristics



Ordering Information

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

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