

2 Amp

Surface Mount

Features

- Halogen Free. "Green" Device (Note 1)
- Fully Automotive Qualified to AEC-Q101
- Low Profile Package
- High Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Parameter

 Lead Free Finish/RoHS Compliant (Note 2)("P" S Designates RoHS Compliant. See Ordering Info

Maximum Ratings @ 25°C (Unless Othe

Symbol

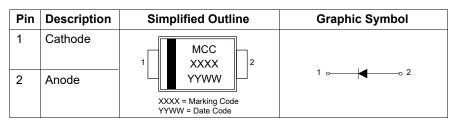
Rating ote 2)("P" Suff ering Informa			Schottky Rectifier 40 to 60 Volts
ess Otherv	vise Specif	ied)	
Va	lue		
SS24FLQ	SS26FLQ	Unit	DO-221AC(SMA-FL)
40	60	V	

Peak Repetitive Reverse Voltage	V _{RRM}				
Working Peak Reverse Voltage	V _{RWM}	40	60	V	
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{RMS}	28	42	V	
Average Rectified Forward Current @ T _L =120°C	I _{F(AV)}	2		А	
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	75		А	
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	23.34 A ² s		A ² s	



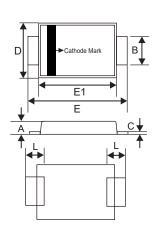
Part Number	Marking Code	
SS24FLQ	SS24	
SS26FLQ	SS26	

Internal Structure



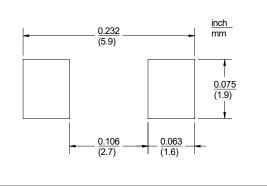
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIN	MIN	MAX	MIN	MAX	NOIL	
А	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		-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:

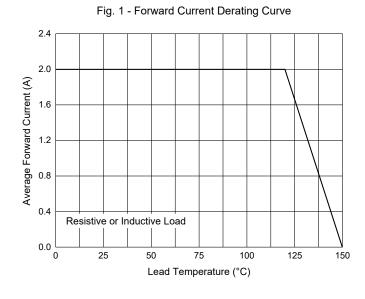
1.Mounted on P.C.B. with 8 mm x 8 mm copper pad areas.

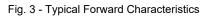
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter		Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage							
SS	S24FLQ	V _F	I _F =2A;T _J =25°C		0.50	0.55	
			I _F =2A;T _J =125°C		0.42	0.45	V
SS	S26FLQ		I _F =2A;T _J =25°C		0.58	0.70	
			I _F =2A;T _J =125°C		0.54	0.63	
Reverse Current							
SS	S24FLQ	I _R	at Rated V _R ;T _J =25°C			0.1	
			at Rated V _R ;T _J =125°C			10	mA
SS	S26FLQ		at Rated V_R ;T _J =25°C			0.1	ШA
			at Rated V _R ;T _J =125°C			10	
Junction Capacitance							
SS	S24FLQ	CJ	V _R =4V;f=1MHz;T _J =25°C		115		pF
SS	626FLQ				95		



Curve Characteristics





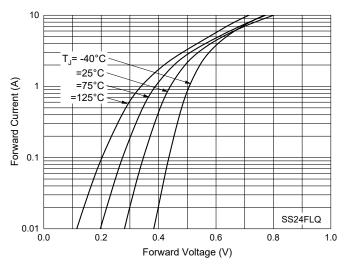
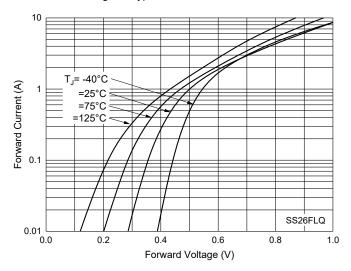


Fig. 5 - Typical Forward Characteristics



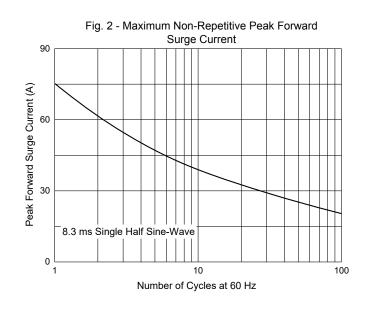


Fig. 4 - Typical Reverse Leakage Characteristics

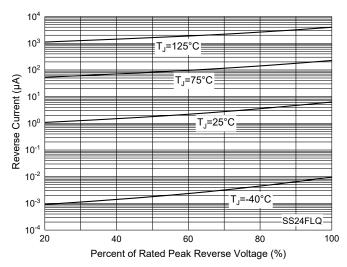
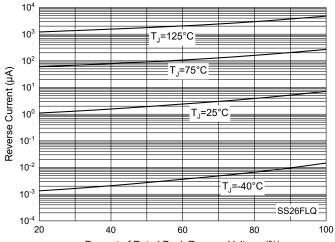


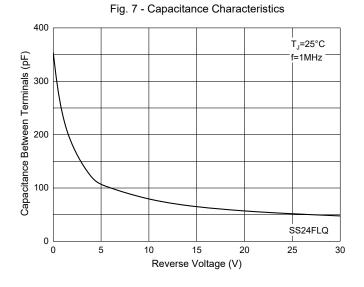
Fig. 6 - Typical Reverse Leakage Characteristics

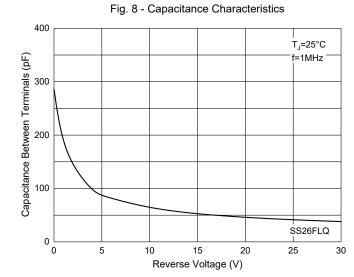


Percent of Rated Peak Reverse Voltage (%)



Curve Characteristics







Ordering Information

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

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