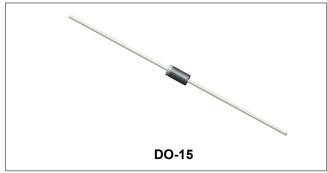


SF21G-SF28G



Technical Data Data Sheet N1641, Rev. C

SF21G-SF28G SUPER FAST RECTIFIER



Circuit Diagram



Features

- Super fast switching for high efficiency
- Low leakage current
- High forward surge capability
- Solder dip 260 ° C, 40 s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014 ounce, 0.40 grams

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	SF21G	SF22G	SF23G	SF24G	SF25G	SF26G	SF28G	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum average forward rectified current 0.375"(9.5mm) lead length at T _A =55 $^\circ\!\!C$	I _(AV)		1	1	2.0	1	1	1	Α
Peak forward surge current 8.3ms single half sine- wave superimposed on rated load (JEDEC Method)	I _{FSM}	75			А				
Maximum instantaneous forward voltage at 2.0A	VF		0.	95		1.2	5	1.7	V
Maximum DC reverse current T _A =25 $^{\circ}$ C at rated DC blocking voltage T _A =100 $^{\circ}$ C	I _R				5.0 50.0	1		1	μA
Maximum Reverse Recovery Time (Note 1)	Trr				35				ns
Typical Junction Capacitance (Note 2)	CJ		60	0.0			30.0		pF
Typical Thermal Resistance (Note 3)	R _{0JA}				50.0				°C/W
Junction Temperature	TJ	-65 to +175		°C					
Storage Temperature Range	T _{STG}				-65 to +1	75			°C

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A. Irr=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B mounted.

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SF21G-SF28G



Ratings and Characteristics Curves

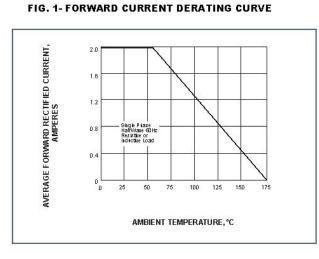
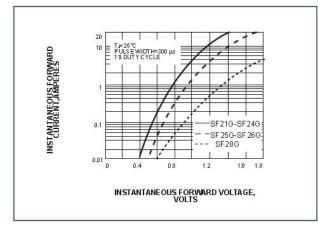


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



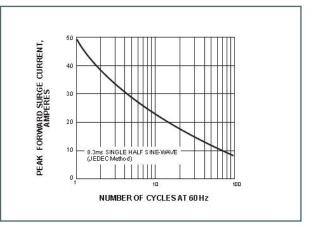


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

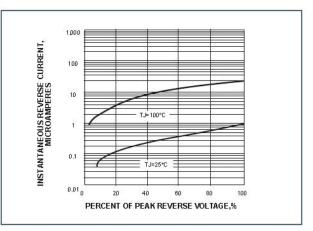
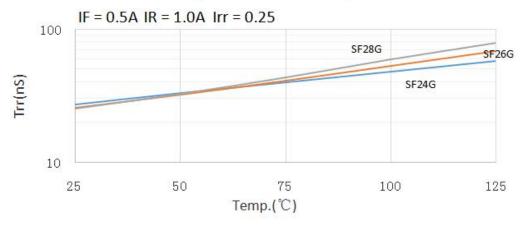


Fig.5 Trr & Temp.



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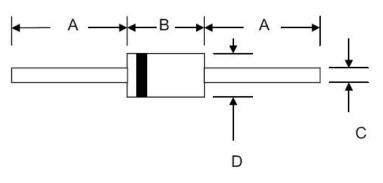
FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



SF21G-SF28G



Mechanical Dimensions DO-15



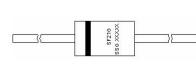
	Millim	neters	Inches		
SYMBOL	Min.	Max.	Min.	Max.	
А	25.4	-	1.000	-	
В	5.5	7.62	0.217	0.300	
С	0.7	0.9	0.028	0.034	
D	2.6	3.6	0.104	0.140	

Ordering Information

Device	Package	Shipping
SF21G		
THRU	DO-15 (Pb-Free)	3000pcs /tape
SF28G		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL	Where	XXXXX	is	YYWWL
----------------------	-------	-------	----	-------

SF21G	= Part Name
SSG	= SSG

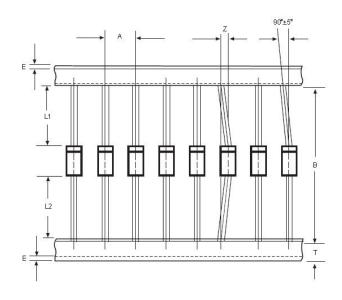
= Year	

YΥ

WW	= Week
L	= Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

Carrier Tape Specification DO-15



SYMBOL	Millimeters			
STMBOL	Min.	Max.		
А	4.50	5.50		
В	50.9	53.9		
Z	-	1.20		
Т	5.60	6.40		
E	-	0.80		
IL1-L2I	-	1.0		



Technical Data Data Sheet N1641, Rev. C





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