

FEATURES

Super fast speed switching speed	
Low forward voltage drop	
Low leakage current	
High forward surge capability	
High reliability	



MECHANICAL DATA

APPROVALS

Case: Molded plastic, DO-15	RoHS	Compliance with 2011/65/EU
Polarity: Color band denotes cathode end		Compliance with IEC61249-2-21:2003
Mounting position: Any		

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25$ °C)

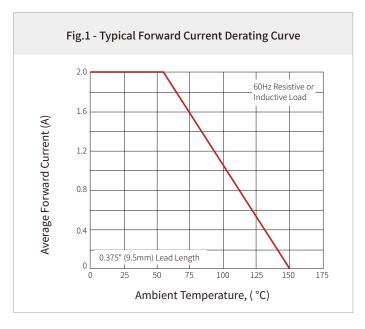
Parameter		Symbol	SF21	SF22	SF23	SF24	SF25	SF26	SF28	Unit
Marking			SF21	SF22	SF23	SF24	SF25	SF26	SF28	
Maximum Recurrent Peak Rever	rse Voltage	V _{RRM}	50	100	150	200	300	400	600	
Maximum RMS Voltag	Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		V _{DC}	50	100	150	200	300	400	600	
Maximum Average Forward Rectified Current at T₁=55°C		I _{F(AV)}	2.0							
Peak Forward surge current 8.3ms single half-sine-wave superimposed on rate load (JEDEC method)		I _{FSM}	50					А		
Maximum Forward Voltage at 2.0A DC		V _F	0.95 1.25 1.70				1.70	V		
Maximum DC reverse current	T _A =25°C	I _R				5.0)			μΑ
at rated DC blocking voltage	rated DC blocking voltage T _A =100°C					10	0			μπ
Typical Junction Capacitance (Note 3)		t _{rr}	35					nS		
Typical Junction Capacitance (Note 1)		C	30 20				pF			
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	50					°C/W		
Operating Junction And Storage Temperature Range		$T_{J}T_{STG}$	-55~+150					°C		

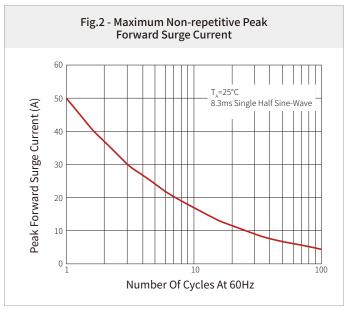
Note:

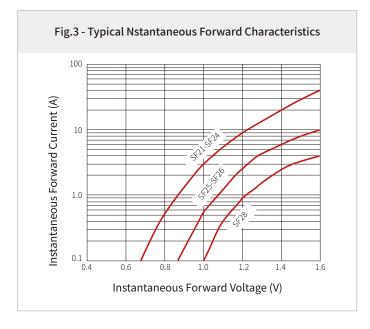
- 1.Measured at 1MHz and applied reverse voltage of 4.0 VDC 2.Thermal Resistance From Junction to Ambient 0.375" (9.5mm) lead length P.C.B. Mounted 3.Reverse Recovery Test Condition $\rm I_F$ =0.5A, $\rm I_R$ =1A, $\rm I_{RR}$ =0.25A

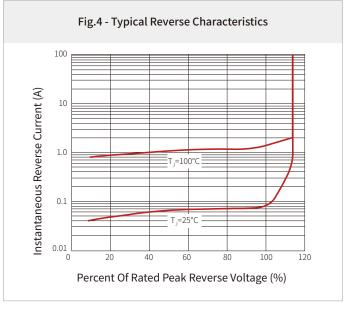


CHARACTERISTIC CURVES

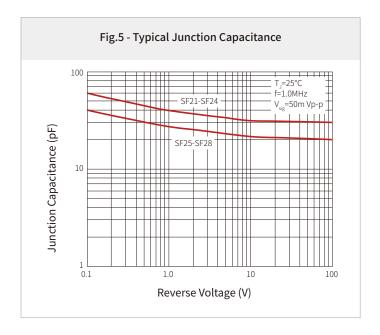


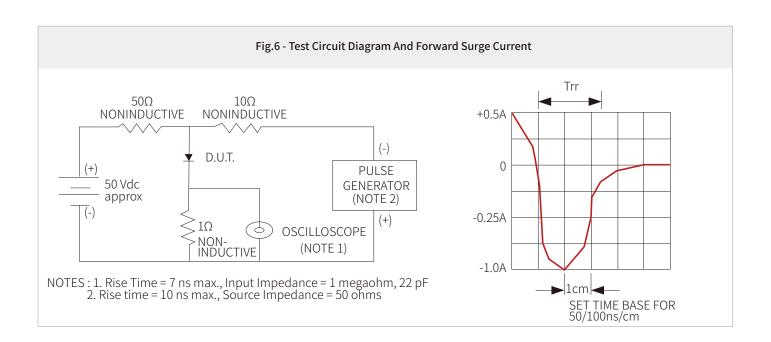






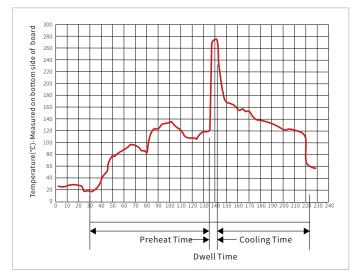






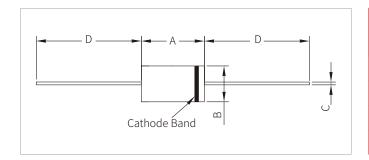


WAVE SOLDERING



	Wave Parameter	Lead-free assembly		
	Temperature Min	100°C		
Pre Heat	Temperature Max	150°C		
	Time(min to max)	60 – 180 secs		
Solder po	t Temperature	280°C Max		
Solder Dv	vell Time	2-5 seconds		

DO-15 PACKAGE INFORMATION



Ref.	Millin	neters	Inches		
itel.	Min.	Max.	Min.	Max.	
А	5.80	7.60	0.230	0.300	
В	2.60	3.60	0.104	0.140	
С	0.70	0.90	0.026	0.034	
D	25.40	-	1.000	-	

ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description		
SF21-SF28	DO-15	3000pcs	Вох		



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By QR Code





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Machat

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