

SF21 - SF24

2.0A SUPER-FAST RECOVERY RECTIFIER

DISCONTINUED, NOT

FOR NEW DESIGN,

Features

Low Leakage Current Low Forward Voltage Drop High Current Capability Super-fast Switching Speed < 35ns Plastic Material - UL Flammability Rating 94V-0



Mechanical Data

Case: DO-15, Molded Plastic Terminals: Plated Axial Leads, Solderable per MIL-STD-202, Method 208 Polarity: Cathode Band Approx. Weight: 0.4 grams

DO-15						
Dim	Min	Max				
Α	25.40	_				
В	5.50	7.62				
С	0.686	0.889				
D	2.60	3.60				
All Dimensions in mm						

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

Single phase, halfwave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

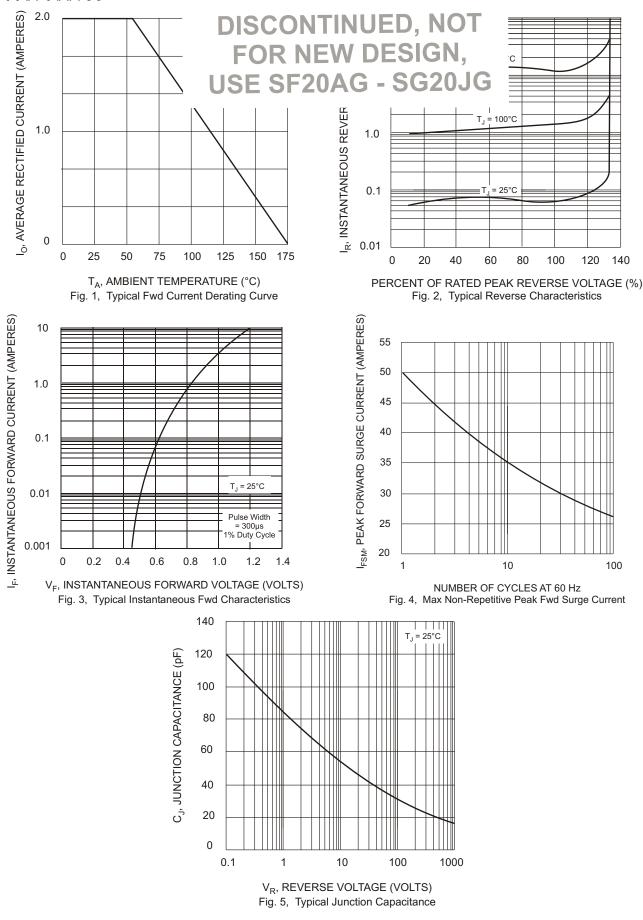
Characteristic		Symbol	SF21	SF22	SF23	SF24	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	150	200	V
Maximum RMS Voltage		V _{R(RMS)}	35	70	105	140	V
Average Rectified Output Current @ TL=55 C		lo		2	.0	-	Α
Non-Repetitive Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	50			Α	
Forward Voltage	@ IF=2.0	VF	0.975				V
Reverse Current at Rated DC Blocking Voltage	@ Ta= 25 C @ Ta=150 C	IR	5 50			μA	
Maximum Reverse Recovery Time (Note 2)		t _{RR}		3	35		ns
Typical Junction Capacitance (Note 3)		Cj		7	' 0		pF
Operating and Storage Temperature Range		Тj, Tsтg		-65 to	+ 175		С

Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

2. Reverse Recovery Test Conditions: IF =0.5 A, IR =1.0 A, IRR=0.25A

3. Measured at 1.0MHz and applied reverse voltage of 4.0V.







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