

SF21 THRU SF28

2.0 AMP. Super Fast Plastic silicon Rectifiers

Features

• Low forward voltage drop

· High current capability

· High reliability

· High surge current capability

Mechanical Data

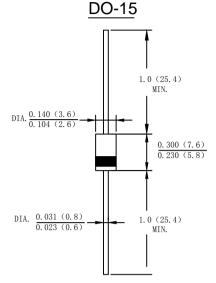
· Case: Molded plastic DO-15

 Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed

· Polarity: Color band dentes cathode end

Mounting Position: AnyMaking: Type Number

Lead Free: For RoHS/Lead Free Version



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

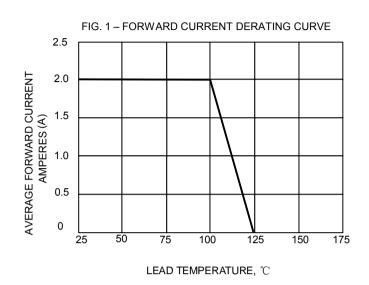
For capacitive load derate current by 20%

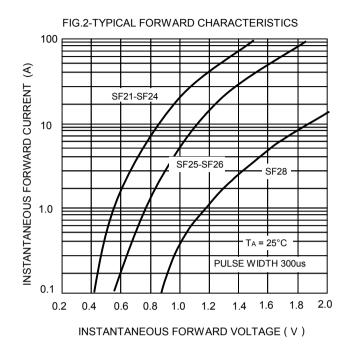
Type Number	SYMBOL	SF21	SF22	SF23	SF24	SF25	SF26	SF28	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Average Rectified Output Current (Note 1) @T _L =100°C	I F(AV)	2.0							Α
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	lгsм	50							А
I ² t Rating for Fusing (t < 8.3ms)	l ² t	10.375							A ² s
Forward Voltage @IF=2.0A	V _{FM}	0.95 1.25 1.7						V	
Peak Reverse Current @T _A =25°C	5.0								uA
At Rated DC Blocking Voltage @T _A =125°C	I _R 100								
Maximum Reverse Recovery Time (Note2)	T _{RR}	35							nS
Typical Junction Capacitance (Note 3)	Cj	40 30					рF		
Typical Thermal Resistance Junction to Ambient	$R_{ heta JA}$	25							℃/W
Operating Temperature Range	Tj	-55 to + 125							$^{\circ}$
Storage Temperature Range	Tstg	-55 to + 150							$^{\circ}$

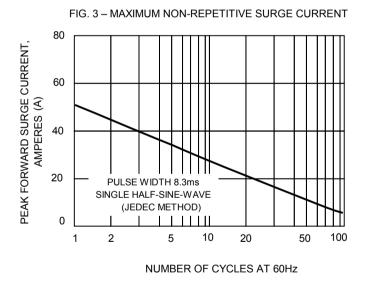
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

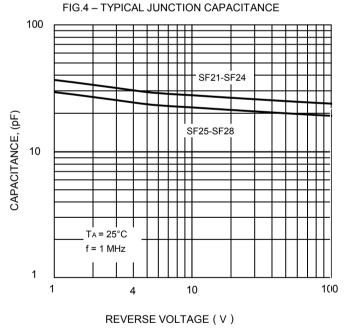
- 2.Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A
- 3. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

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version:02 3 of 3 www.dyelec.com