

SF21G THRU SF28G



Super Fast Glass Passivated Rectifiers

Reverse Voltage: 50 to 600 Volts

Forward Current: 2.0 Ampere

RoHS Device

Halogen Free

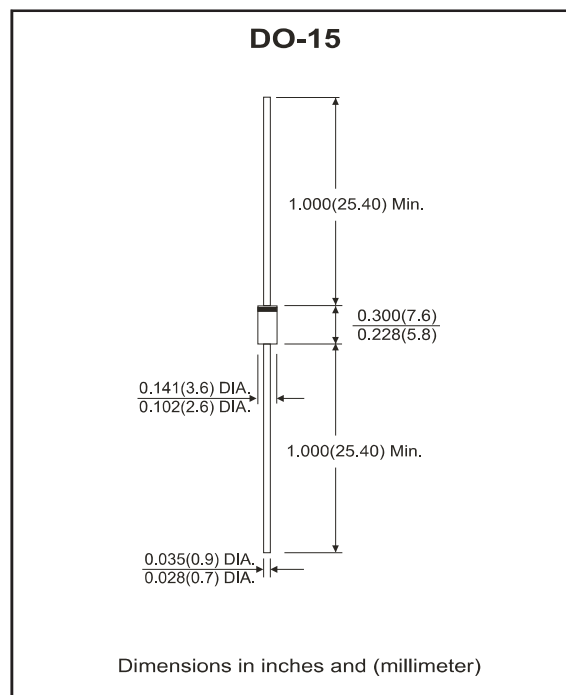


Features

- Glass passivated chip junction.
- Low reverse leakage.
- High forward surge current capability.
- High temperature soldering guaranteed 260°C/10 seconds at terminals.

Mechanical data

- Epoxy: UL 94V-0 rate flame retardant.
- Case: DO-15, molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode.
- Weight: 0.40 grams approx.
- Mounting position: Any.



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load derate current by 20%.

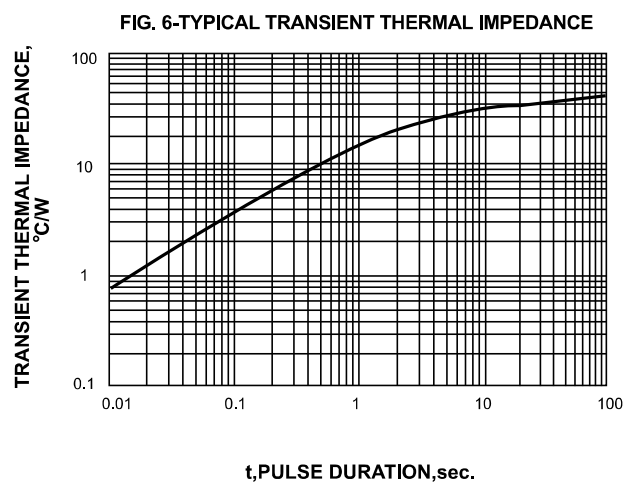
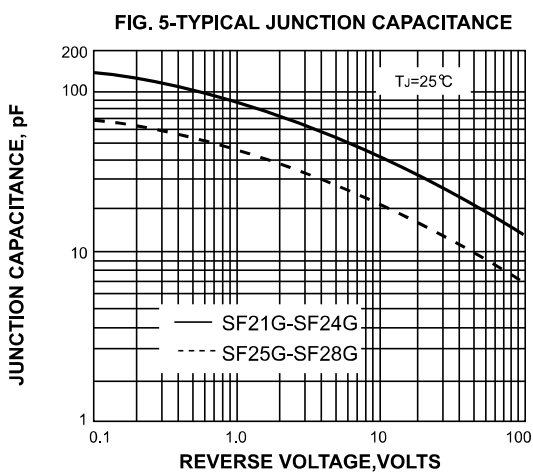
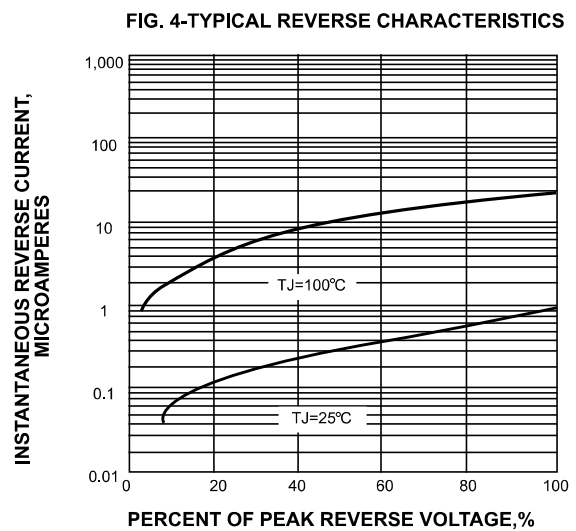
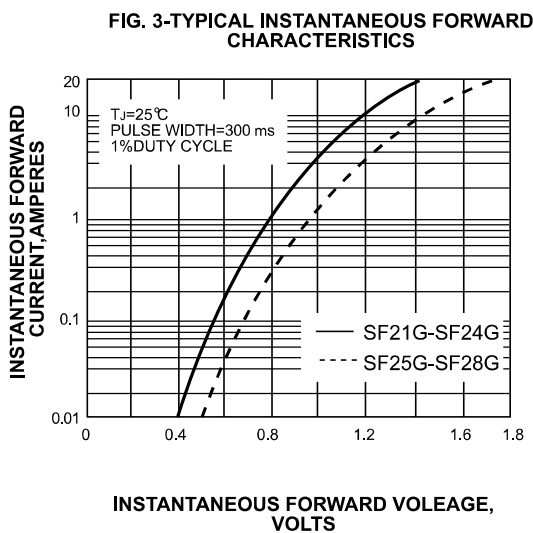
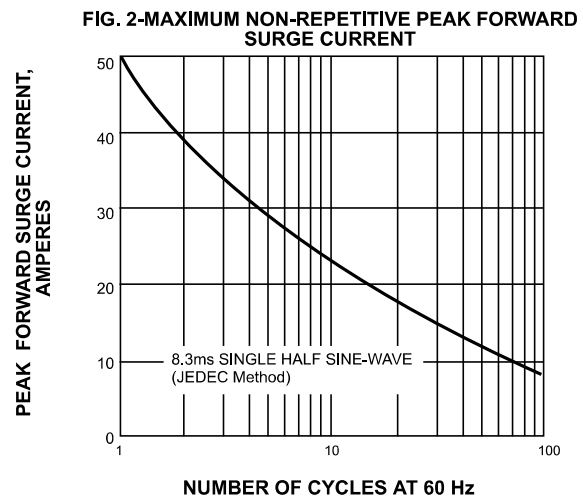
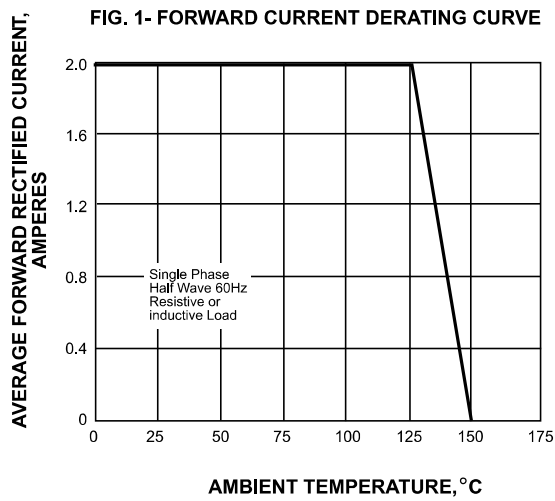
Parameter		Symbol	SF21G	SF22G	SF23G	SF24G	SF25G	SF26G	SF28G	Unit
Max. repetitive peak reverse voltage		V _{RRM}	50	100	150	200	300	400	600	V
Max. RMS voltage		V _{RMS}	35	70	105	140	210	280	420	V
Max. DC blocking voltage		V _{DC}	50	100	150	200	300	400	600	V
Max. average forward rectified current at T _L =125°C		I _(AV)	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	50							A
Max. instantaneous forward voltage at 2.0A		V _F	0.95				1.25		1.7	V
Max. DC reverse current at rated DC blocking voltage	@T _A =25°C	I _R	5							μA
	@T _A =100°C	I _R	50							
Max. reverse recovery time (Note 1)		T _{rr}	35							nS
Typical Junction capacitance (Note 2)		C _J	60				30			pF
Typical thermal resistance		R _{θJA}	50							°C/W
Operating junction and storage temperature range		T _J , T _{STG}	-65 to +150							°C

Notes: 1. Reverse recovery time test condition: $I_F=0.5A$, $I_R=0.1A$, $I_{rr}=0.25A$
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Company reserves the right to improve product design , functions and reliability without notice.

Rev:1.0

Rating and Characteristic Curves



Marking Code

Part Number	Marking code	Packaging
SF21G	SF21G	AMMO
SF22G	SF22G	AMMO
SF23G	SF23G	AMMO
SF24G	SF24G	AMMO
SF25G	SF25G	AMMO
SF26G	SF26G	AMMO
SF28G	SF28G	AMMO
SF21GT	SF21G	REEL
SF22GT	SF22G	REEL
SF23GT	SF23G	REEL
SF24GT	SF24G	REEL
SF25GT	SF25G	REEL
SF26GT	SF26G	REEL
SF28GT	SF28G	REEL
SF21GB	SF21G	BULK
SF22GB	SF22G	BULK
SF23GB	SF23G	BULK
SF24GB	SF24G	BULK
SF25GB	SF25G	BULK
SF26GB	SF26G	BULK
SF28GB	SF28G	BULK



XX = Product type marking code

Note:

1) Suffix code after part number to specify packaging item.

Packaging	Code
AMMO PACK	NA
REEL PACK	T
BULK PACK	B

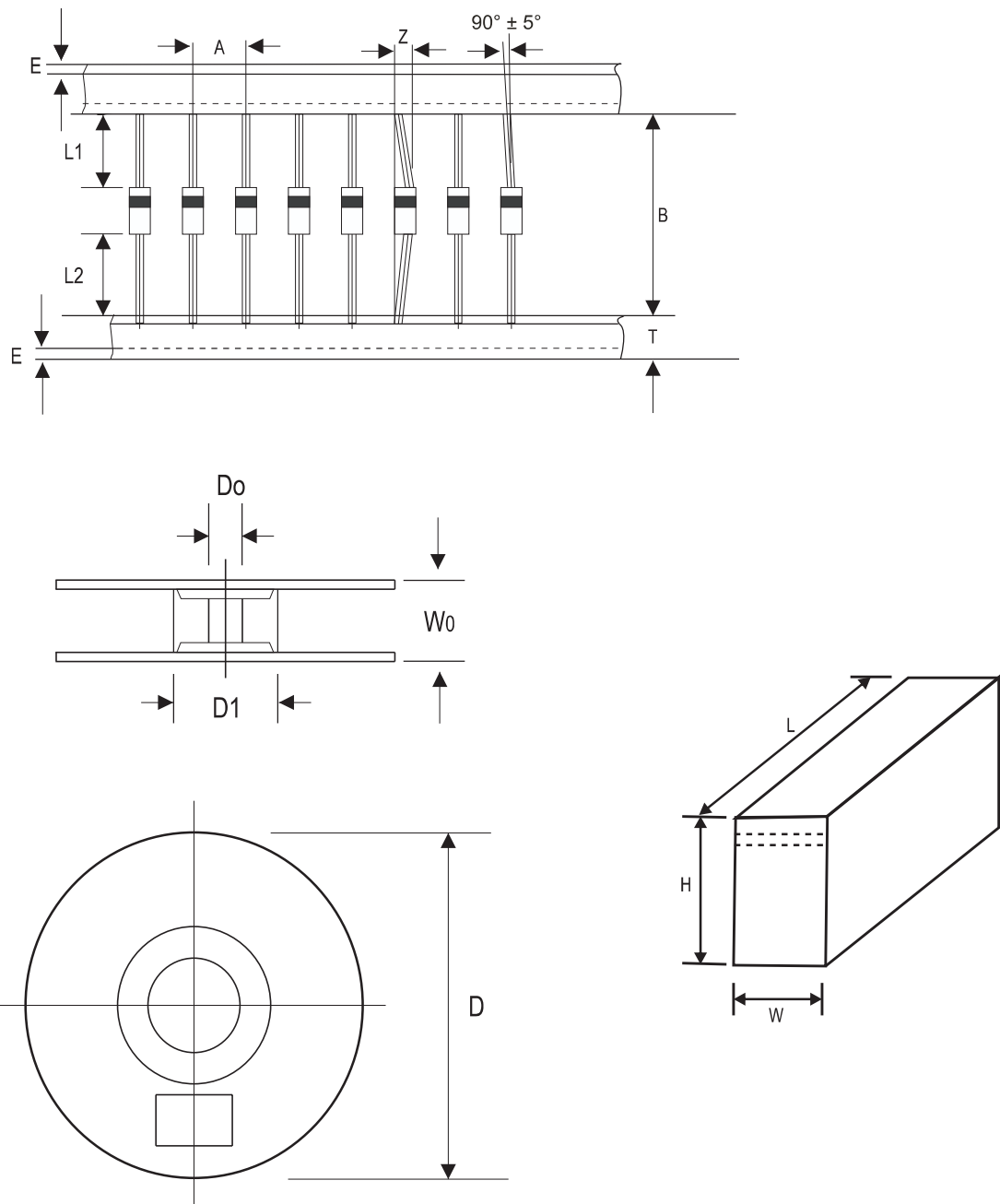
Standard Packaging

Case Type	AMMO PACK	
	BOX (pcs)	
DO-15	3,000	

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DO-15	4,000	13

Case Type	BULK PACK	
	BOX (pcs)	
DO-15	500	

Taping Specification For Axial Lead Diodes



DO-15	SYMBOL	A	B	Z	T	E	L1-L2
	(mm)	5.00 ± 0.50	$52.40^{+1.50}_{-0.40}$	1.20 (max)	6.00 ± 0.40	0.80 (max)	1.00 (max)
	(inch)	0.197 ± 0.020	$2.063^{+0.059}_{-0.016}$	0.047 (max)	0.236 ± 0.016	0.031 (max)	0.039 (max)

DO-15	SYMBOL	D1	D0	D	W0	L	W	H
	(mm)	85.70 ± 0.30	16.60 ± 0.40	330.00	79.00 ± 1.00	255.00 ± 5.00	75.00 ± 5.00	150.00 ± 5.00
	(inch)	3.374 ± 0.012	0.654 ± 0.016	12.992	3.110 ± 0.039	10.039 ± 0.197	2.953 ± 0.197	5.906 ± 0.197

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