

**Super Fast Rectifiers**

**Reverse Voltage - 50 to 600 V**

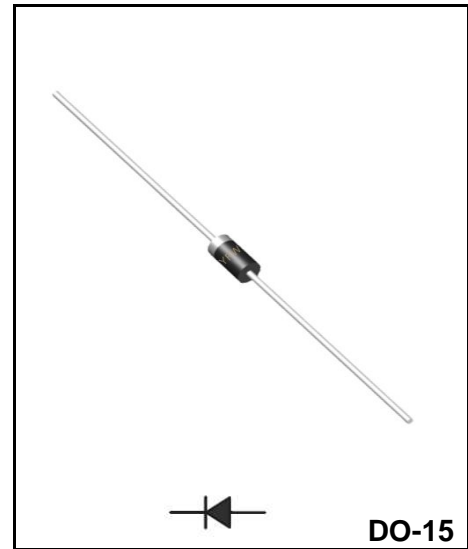
**Forward Current - 2 A**

**FEATURES**

- ◆The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆Glass passivated junction chip
- ◆Low reverse leakage
- ◆High forward surge current capability
- ◆High temperature soldering guaranteed 250 °C/10 seconds at terminals

**MECHANICAL DATA**

- ◆Case: DO-15
- ◆Terminals: Solderable per MIL-STD-750, Method 2026
- ◆Weight : 0.0116 ounce, 0.33 grams



**Maximum Ratings and Electrical characteristics**

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

Parameter	Symbols	SF21G	SF22G	SF23G	SF24G	SF25G	SF26G	SF27G	SF28G	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	150	200	300	400	500	600	V
Maximum RMS voltage	$V_{RMS}$	35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current at $T_c = 100\text{ }^\circ\text{C}$	$I_{(AV)}$	2.0								A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	$I_{FSM}$	60.0								A
Maximum Instantaneous Forward Voltage at 2.0A	$V_F$	0.95			1.25		1.7			V
Maximum DC Reverse Current $T_a = 25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage $T_a = 125\text{ }^\circ\text{C}$	$I_R$					50 500				$\mu\text{A}$
Maximum reverse recovery time <sup>(Note 1)</sup>	$T_{rr}$					35				nS
Typical Junction Capacitance <sup>(Note 2)</sup>	$C_j$					45				pF
Typical Thermal Resistance	$R_{\theta JA}$					75				$^\circ\text{C/W}$
Operating and Storage Temperature Range	$T_j, T_{stg}$					-55 ~ +150				$^\circ\text{C}$

Note:

1.Reverse recovery time test condition:  $I_F=0.5\text{A}$   $I_R=1.0\text{A}$   $I_{rr}=0.25\text{A}$

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

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

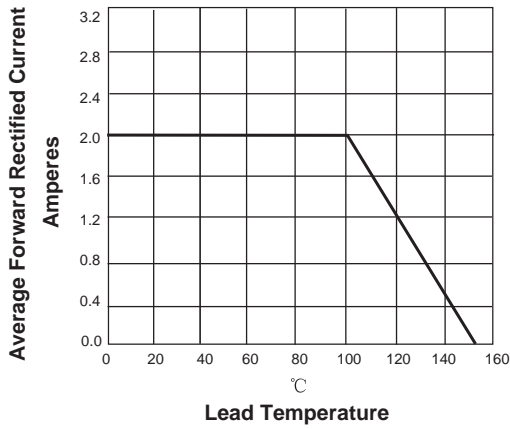


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

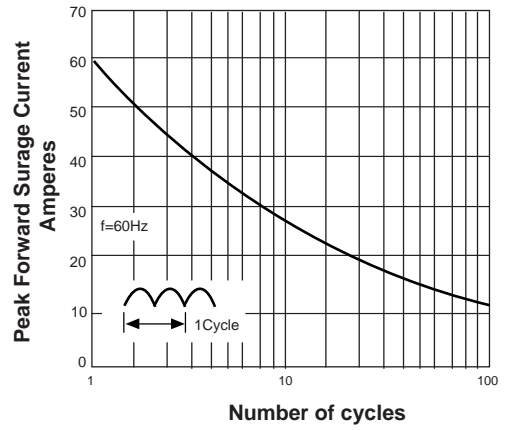


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

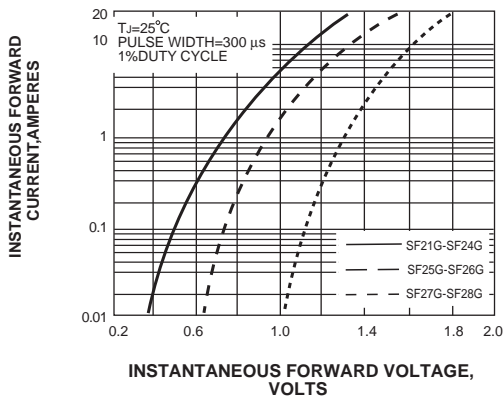
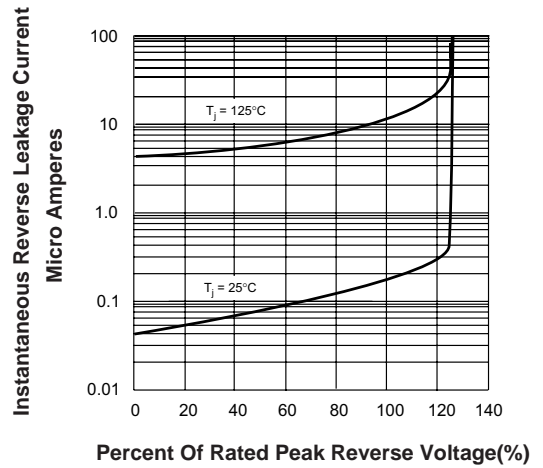


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



**Ordering information**

Package	Packing Description	Packing Quantity
DO-15	bulk	500PCS/Inner Box 30000PCS/Carton
	ammo pack	3000PCS/Inner Box 30000PCS/Carton

**Package Dimensions**

**DO-15**

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	5.80	7.60	0.230	0.300
B	2.60	3.60	0.104	0.140
C	0.71	0.86	0.028	0.034
D	25.4	-	1.00	-

The diagram shows a side view of a DO-15 package. It has a central cylindrical body with two leads extending from it. Dimension A is the length of the central body. Dimension B is the length of the leads. Dimension C is the thickness of the central body. Dimension D is the length of the leads. Labels on the package include 'Model name', 'Cathode Mark', 'YFW', and 'xxxx'.

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