

DACO SEMICONDUCTOR CO., LTD.

勝特力電材超市-龍山店 886-3-5773766
勝特力電材超市-光復店 886-3-5729570
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<http://www.100y.com.tw>

SF21G THRU SF27G

SUPER FAST GLASS PASSIVATED RECTIFIERS

FEATURES:

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

MECHANICAL DATA

Case : Molded plastic

Epoxy: UL 94V-0 rate flame retardant

Lead : Axial leads, solderable per MIL-STD-202,

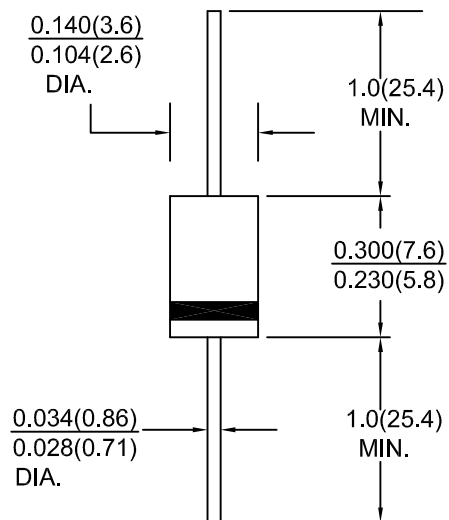
Method 208 guaranteed

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 0.40 grams

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temp. unless otherwise specified.

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

For capacitive load, derate current by 20 %.

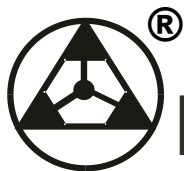
Characteristic	Symbol	SF 21G	SF 22G	SF 23G	SF 24G	SF 25G	SF 26G	SF 27G	Units
Maximum recurrent peak reverse voltage	VRRM	50	100	150	200	300	400	600	Volts
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	Volts
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	Volts
Maximum average forward rectified current .375"(9.5mm) lead length at Ta=55℃	I(AV)	2.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	50							Amps
Maximum instantaneous forward voltage at 2.0 A	VF	0.95				1.25		1.70	Volts
Maximum DC reverse current at rated DC blocking voltage Ta=25℃ Ta=125℃	IR	5.0 100							μ A
Maximum reverse recovery time (note 1)	trr	35							nS
Typical junction capacitance (note 2)	Cj	60							pF
Operating and storage temperature range	Tj,Tstg	-65 to +150							℃

Notes : 1. Reverse recovery test condition : $I_F=0.5A$; $I_R=1.0A$; $IRR=0.25A$

2. Measured 1MHz and applied reverse voltage of 4.0V DC

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Nov. 2021



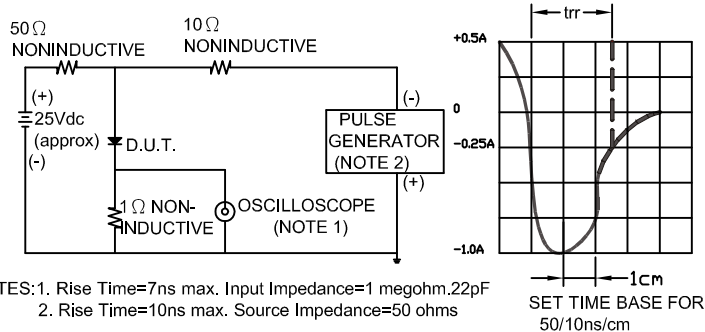
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RATINGS AND CHARACTERISTIC CURVES

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES:1. Rise Time=7ns max. Input Impedance=1 megohm.22pF
2. Rise Time=10ns max. Source Impedance=50 ohms

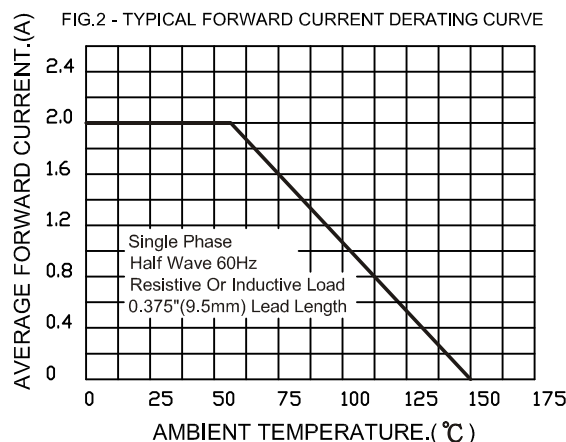


FIG.3-TYPICAL FORWARD CHARACTERISTICS

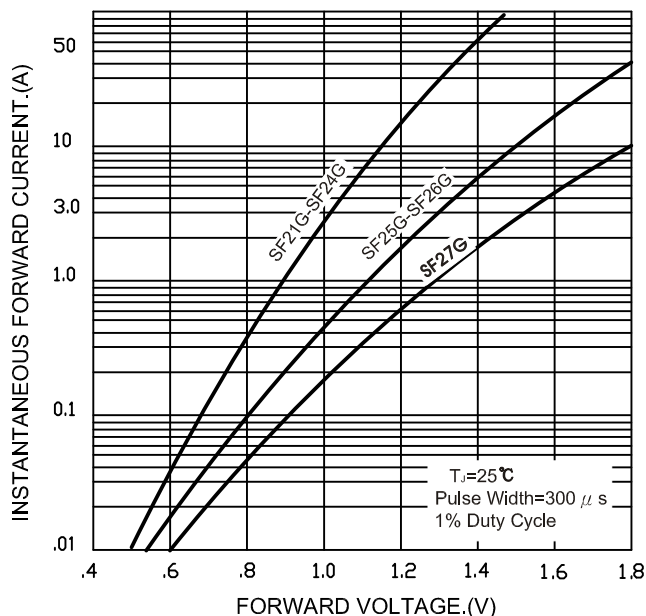
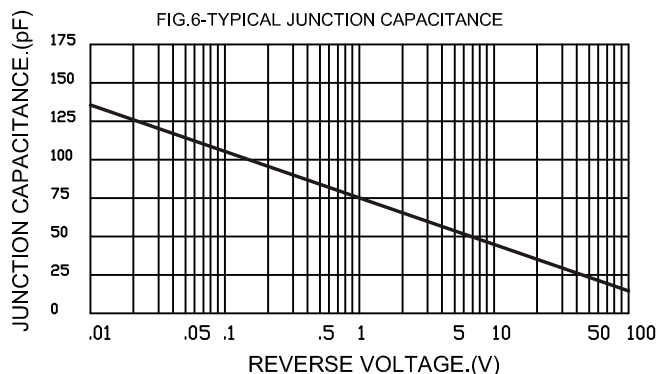
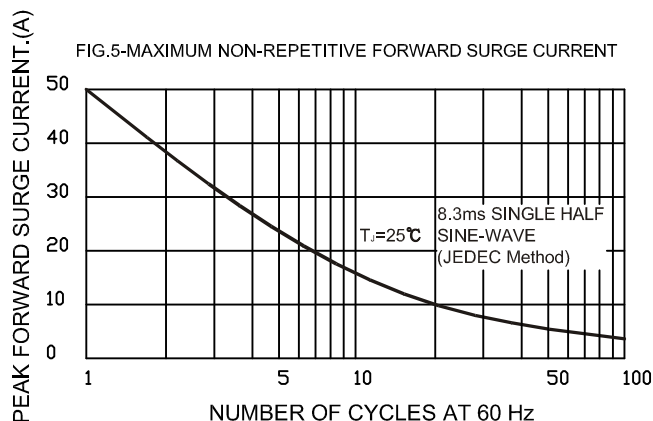
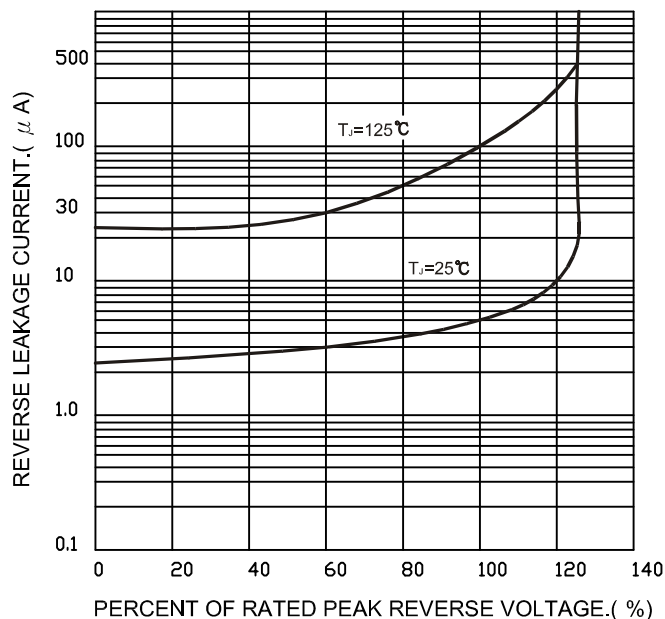


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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