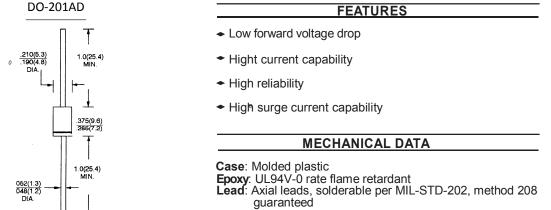


SF31G THRU SF38G

GLASS PASSIVATED SUPER FAST RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 3.0 Ampere



Polarity: Color band denotes cathode end Mounting Position: Any

Weight: 1.18 grams

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 current derate by 20%.

TYPE NUMBER	SYMBOLS	SF31G	SF32G	SF33G	SF34G	SF35G	SF36G	SF38G	UNITS
Maximum repetitive 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	I(AV)	3.0							
0.375"(9.5mm) lead length at TA=55 °C(Note 1)	,								Amps
Peak forward surge current	100								
8.3ms single half sine-wave superimposed	IFSM	100						A	
on rated load (JEDEC Method)									Amps
Maximum instantaneous forward voltage at 3.0A	Vf	0.95 1.25				Volts			
Maximum DC reverse current Ta=25° C					5.0				
at rated DC blocking voltage Ta=125°C	IR	lr 50						μΑ	
Maximum reverse recovery time (NOTE 2)	trr	35						ns	
Typical junction capacitance (NOTE 3)	Сı	60 30					pF		
Operating junction and storage temperature range	Tj,Tstg	-65 to +150						°C	

Note: 1.Each lead mounted on a 0.8X0.8X0.04" (20X20X1mm) copper heat-sink.

2.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

Dimensions in inches and (millimeters)

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

RATINGS AND CHARACTERISTIC CURVES SF31G THRU SF38G

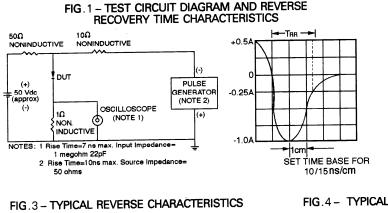


FIG.2 - TYPICAL FORWARD CURRENT DERATING CURVE

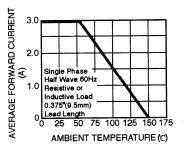


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

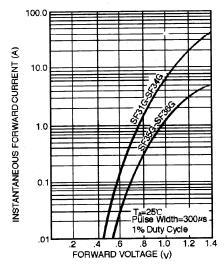
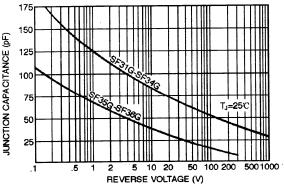
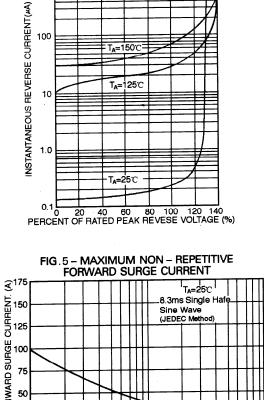


FIG.6 - TYPICAL JUNCTION CAPACITANCE





T_A=150°C

T_A=125°C

1000

100

10

1.0

PEAK FORWARD SURGE CURRENT. 0 27 05 12 00 27 05 0 50 100 5 10 20 2 NUMBER OF CYCLES AT 60 Hz

GOOD ELECTRONIC CO., LTD