

**SUPER FAST
GLASS PASSIVATED RECTIFIERS**

**REVERSE VOLTAGE - 100 to 600 Volts
FORWARD CURRENT - 3.0 Amperes**

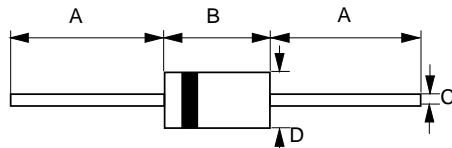
FEATURES

- Glass passivated chip
- Super fast switching time for high efficiency
- Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case : JEDEC DO-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.04 ounces, 1.1 grams
- Mounting position : Any

DO-201AD



DO-201AD		
Dim.	Min.	Max.
A	25.4	-
B	7.30	9.50
C	1.20	1.30
D	4.80	5.30

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	SF30BG	SF30DG	SF30FG	SF30GG	SF30HG	SF30JG	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	300	400	500	600	V
Maximum RMS Voltage	V _{RMS}	70	140	210	280	350	420	V
Maximum DC Blocking Voltage	V _{DC}	100	200	300	400	500	600	V
Maximum Average Forward Rectified Current @T _A =55°C	I _(AV)				3.0			A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I _{FSM}			125				A
Repetitive Peak Surge Current (Note 5)	I _{FRM}			6				A
Maximum forward Voltage at 3.0A DC	V _F	0.95		1.25		1.3		V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R			5				uA
Maximum Reverse Recovery Time (Note 1)	T _{RR}	35		40		50		ns
Typical Junction Capacitance (Note 2)	C _J		35			45		pF
Typical Thermal Resistance (Note 3)	R _{θJA}			20				°C/W
Typical Thermal Resistance (Note 4)	R _{θJC}			10				°C/W
Operating Temperature Range	T _J			-55 to +150				°C
Storage Temperature Range	T _{STG}			-55 to +150				°C

NOTES : 1. Measured with I_F=0.5A, I_R=1.0A, I_{RR}=0.25A.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance Junction to Ambient.

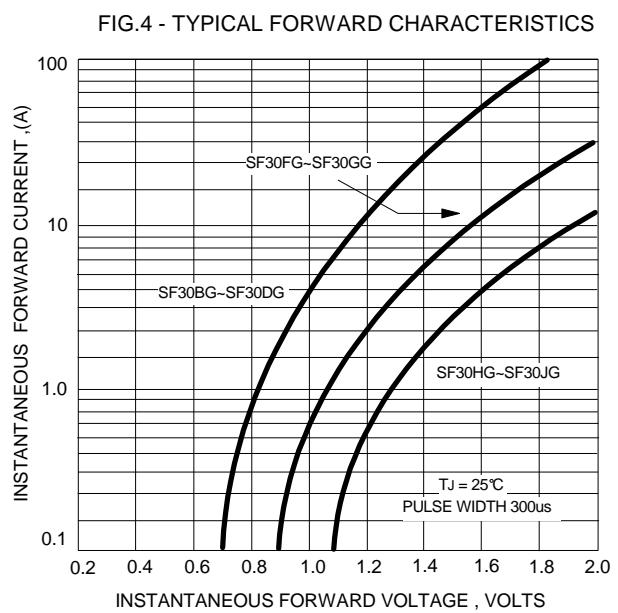
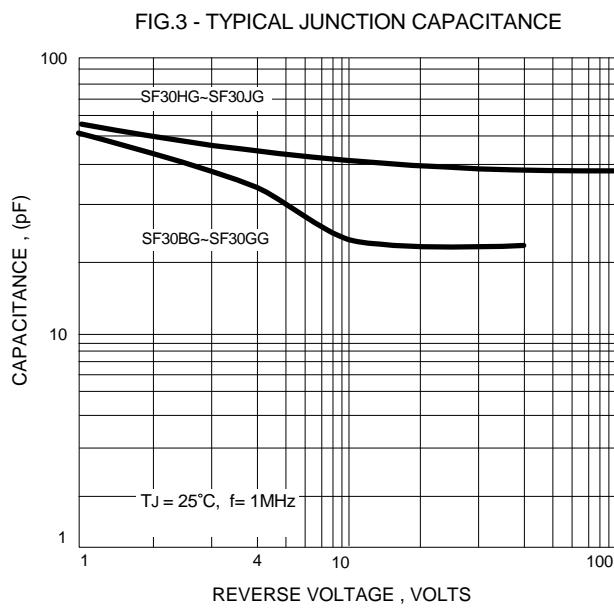
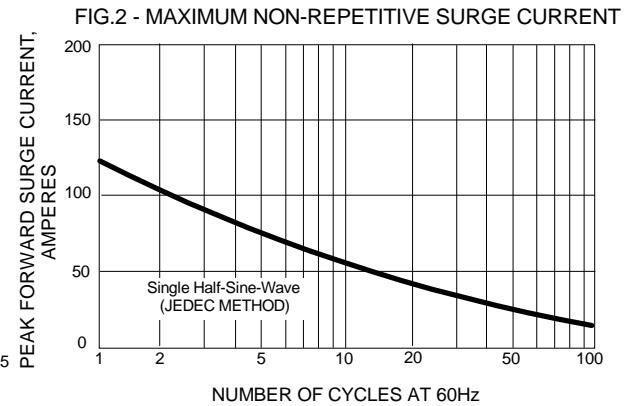
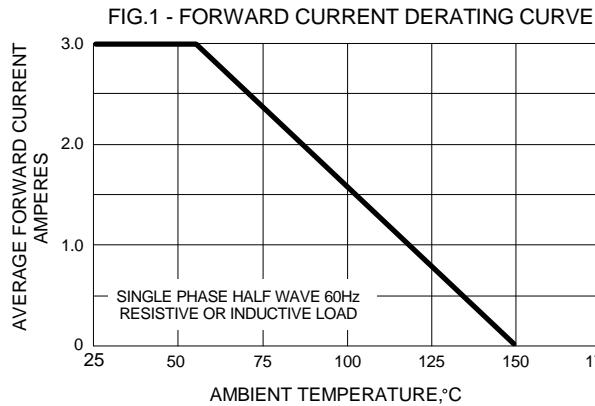
4. Thermal Resistance Junction to Case.

5. Square wave, 20KHz, Duty : 50%.

REV. 5, Oct -2016, KDFG01

RATING AND CHARACTERISTIC CURVES
SF30BG thru SF30JG

LITEON



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