

**SUPER FAST  
GLASS PASSIVATED RECTIFIERS**

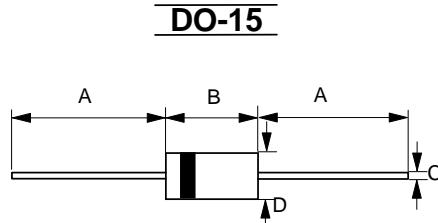
**REVERSE VOLTAGE - 100 to 600 Volts  
FORWARD CURRENT - 2.0 Amperes**

**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-15 molded plastic
- Polarity : Color band denotes cathode
- Lead Free Finish, RoHS Compliant
- Weight : 0.015 ounces, 0.4 grams
- Mounting position : Any



DO-15		
Dim.	Min.	Max.
A	25.4	-
B	5.80	7.60
C	0.71 Ø	0.86 Ø
D	2.60 Ø	3.60 Ø

All Dimensions in millimeter

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	SF20BG	SF20DG	SF20FG	SF20GG	SF20HG	SF20JG	UNIT		
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	200	300	400	500	600	V		
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	210	280	350	420	V		
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	300	400	500	600	V		
Maximum Average Forward Rectified Current @TA=75°C	I <sub>(AV)</sub>	2.0					A			
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I <sub>FSM</sub>	60					A			
Maximum forward Voltage at 2.0A DC	V <sub>F</sub>	0.95		1.25		1.3		V		
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =100°C	I <sub>R</sub>	5 100					uA			
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	40			30			pF		
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub> R <sub>θJC</sub>	35 16					°C/W			
Maximum Reverse Recovery Time (Note 3)	T <sub>RR</sub>	35		40		50		ns		
Operating Temperature Range	T <sub>J</sub>	-55 to +150					°C			
Storage Temperature Range	T <sub>STG</sub>	-55 to +150					°C			

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

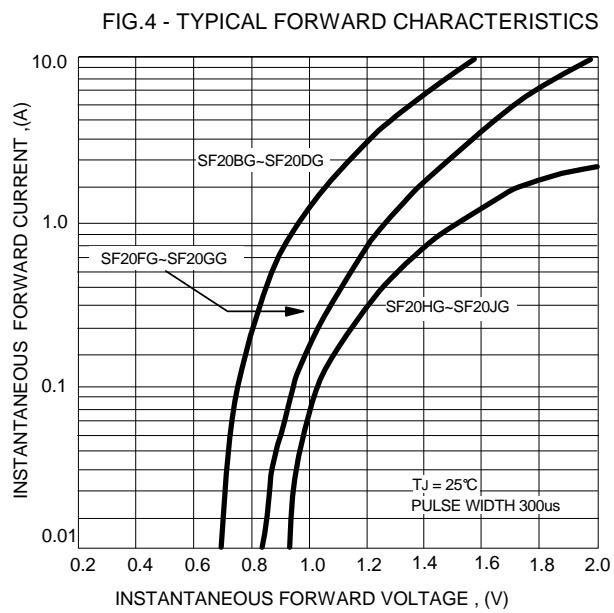
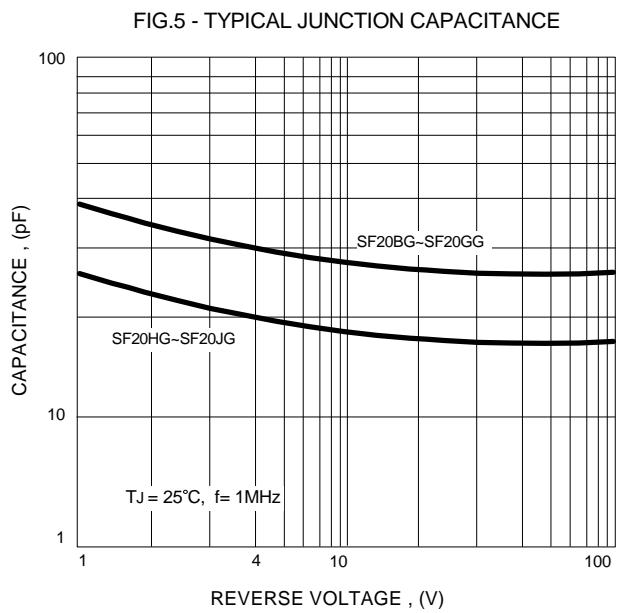
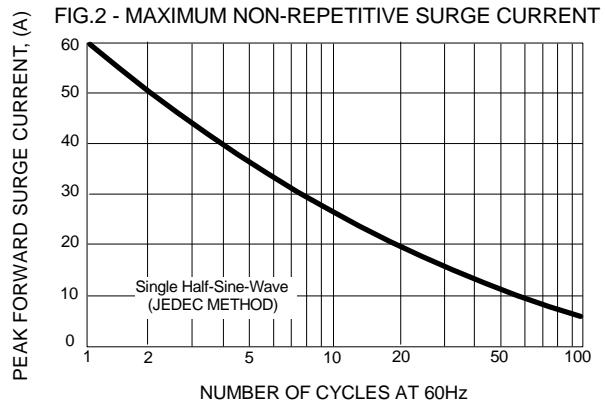
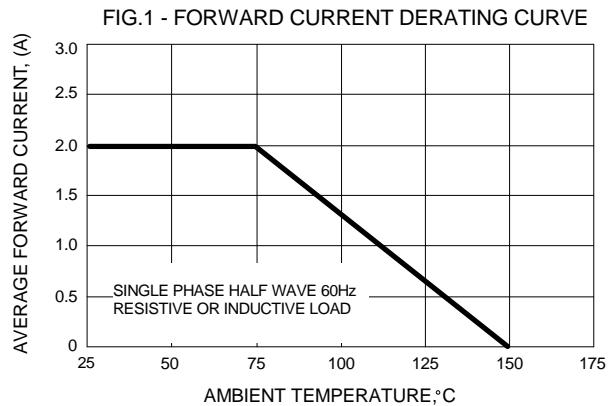
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2. Thermal Resistance Junction to Ambient.

3. Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A..

**RATING AND CHARACTERISTIC CURVES**  
**SF20AG thru SF20JG**

**LITEON**



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