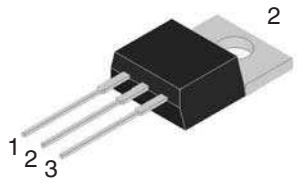
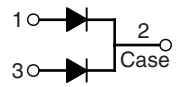
16 Amp. Glass Passivated Ultrafast Recovery Rectifier

TO-220AB





Common Cathode
Suffix "C"

Voltage	Current
200 to 600 V	16 A

- **Glass Passivated Junction**
- High current capability
- The plastic material U/L recognition 94 V-0
- Terminals: Leads solderable per MIL-STD202
- Low forward Voltage drop

Absolute Maximum Ratings, according to IEC publication No. 134

		SF1604G	SF1606G	SF1608G
V_{RRM}	Peak recurrent reverse voltage (V)	200	400	600
V_{RMS}	Maximum RMS voltage (V)	140	280	420
V_{DC}	Maximum DC blocking voltage (V)	200	400	600
$I_{F\,(AV)}$	Maximum Average Forward current at T_C = 100 °C (both diodes conducting)	16 A		
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	125 A		
t_{RR}	Max. reverse recovery time from I_F = 0.5 A ; I_R = 1 A ; I_{RR} = 0.25 A	35 ns		
C_j	Typical Junction Capacitance at 1 MHz and reverse voltaje of $4V_{DC}$	80 pF	60 pF	
T_j	Operating temperature range	– 65 to + 150 °C		
T_{stg}	Storage temperature range	– 65 to + 150 °C		

Electrical Characteristics

			SF1604G	SF1606G	SF1608G
V_F	Max. forward voltage drop at I_F = 8 A	T_j = 25 °C	0.975 V	1.3 V	1.7 V
I_R	Max. Instantaneous reverse current at $V_R = V_{RRMax}$	T_j = 25 °C	10 µA		
		T_j = 100 °C	400 µA		
$R_{thj\text{-}C}$	Typical Thermal Resistance		1.5 °C/W		

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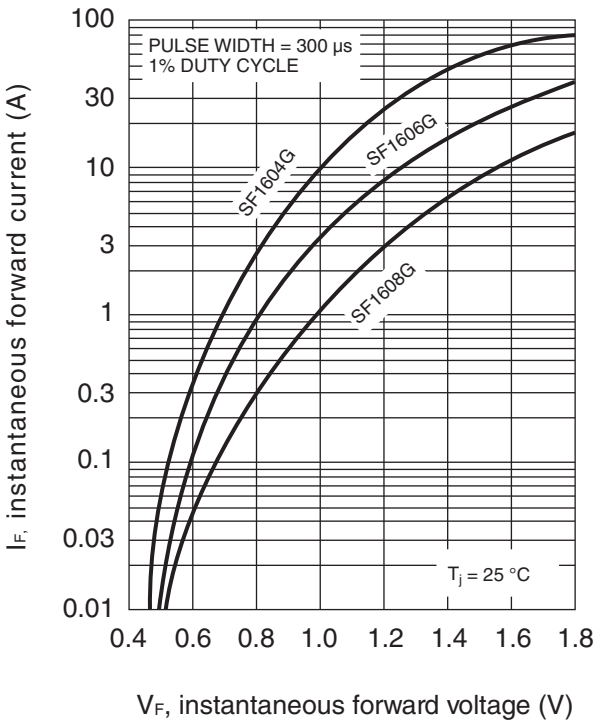
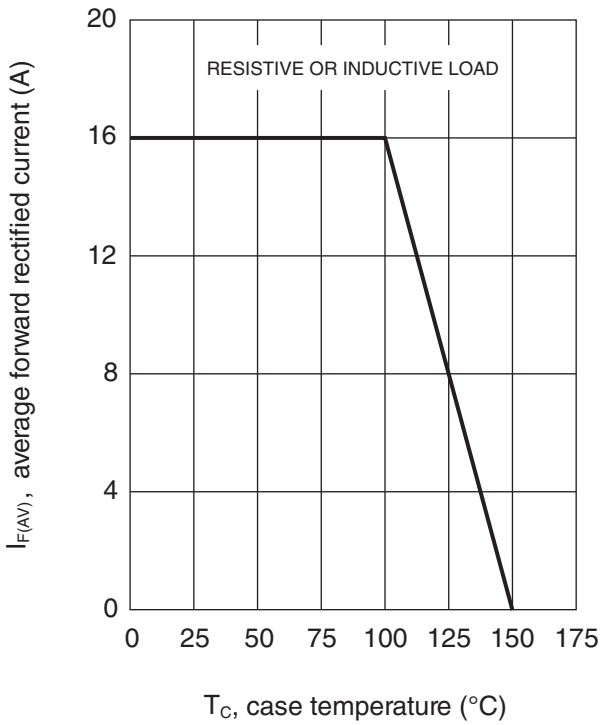
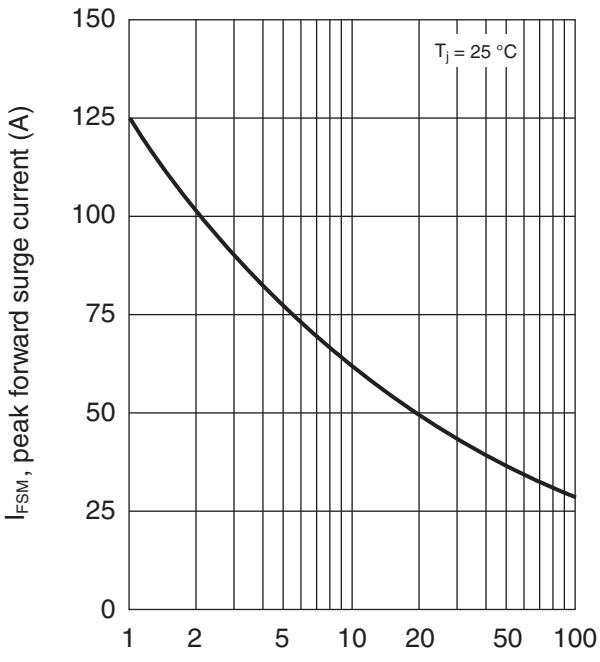
TYPICAL FORWARD CHARACTERISTIC



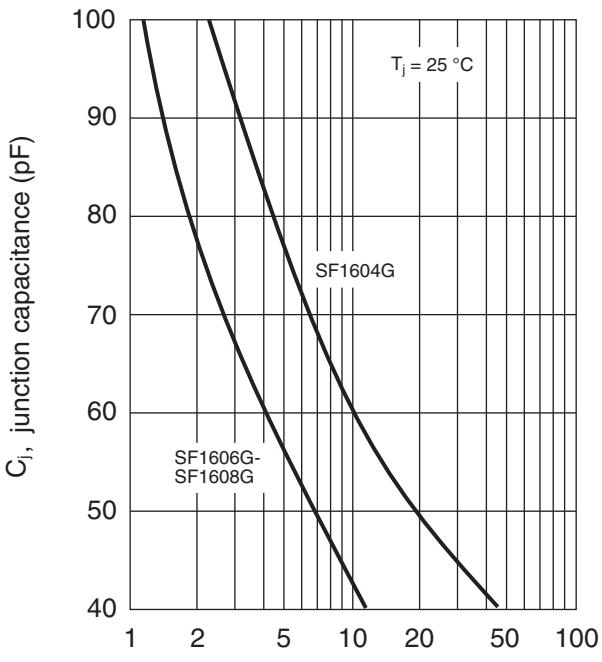
FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



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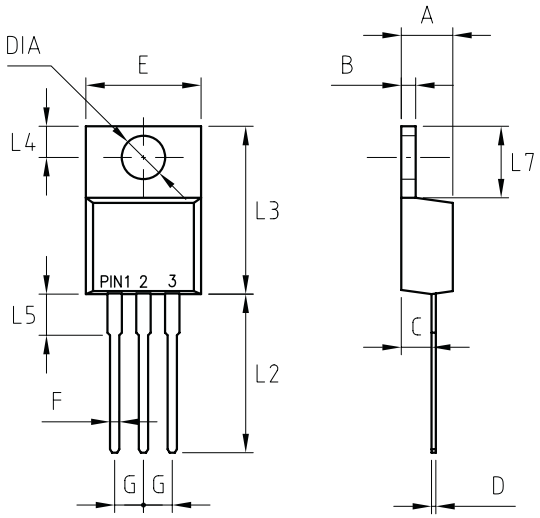
PACKAGE MECHANICAL DATA TO-220AB



REF.	DIMENSIONS Milimeters	
	Min.	Max.
A	4.44	4.70
B	1.14	1.40
C	2.54	2.79
D	0.35	0.64
E	--	10.5
F	0.68	0.94
G	2.41	2.67
L2	13.46	14.22
L3	14.90	15.10
L4	2.62	2.87
L5	3.56	4.06
L7	5.84	6.86
DIA	3.74	3.91