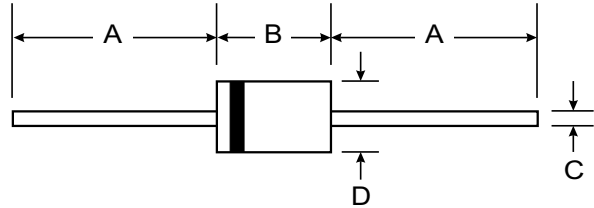


### Features

- Plastic Package: UL Flammability Classification Rating 94V-0
- Capable of Meeting the Environmental Tests in MIL-STD-750C
- High Reliability and Low Leakage
- Fast Switching for High Efficiency



### Mechanical Data

- Case: DO-41, Molded Plastic
- Terminals: Axial Lead, Solderable per MIL-STD-202, Method 208
- Mounting Position: Any
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)

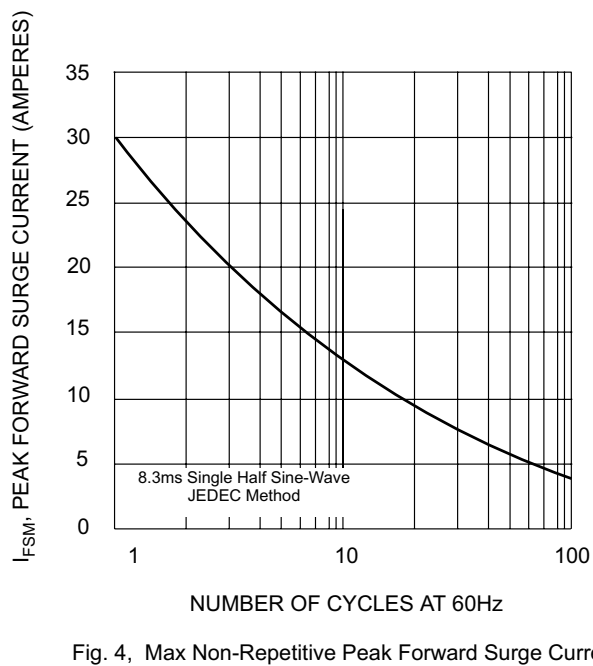
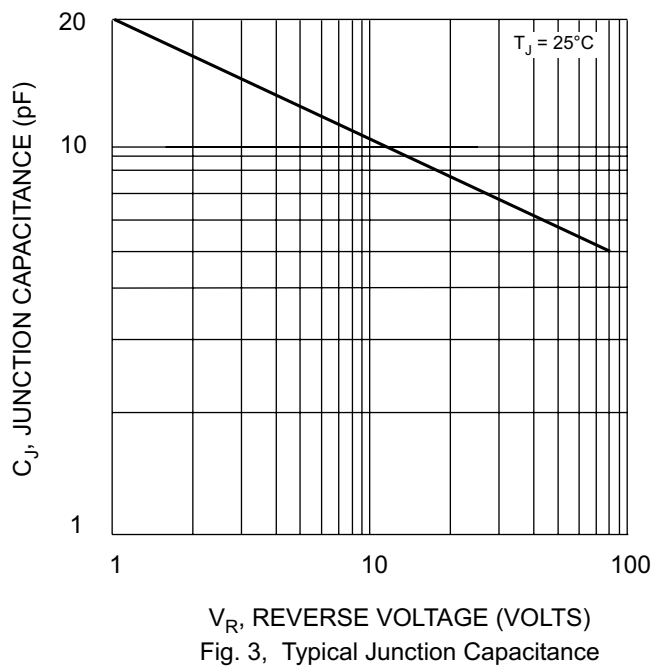
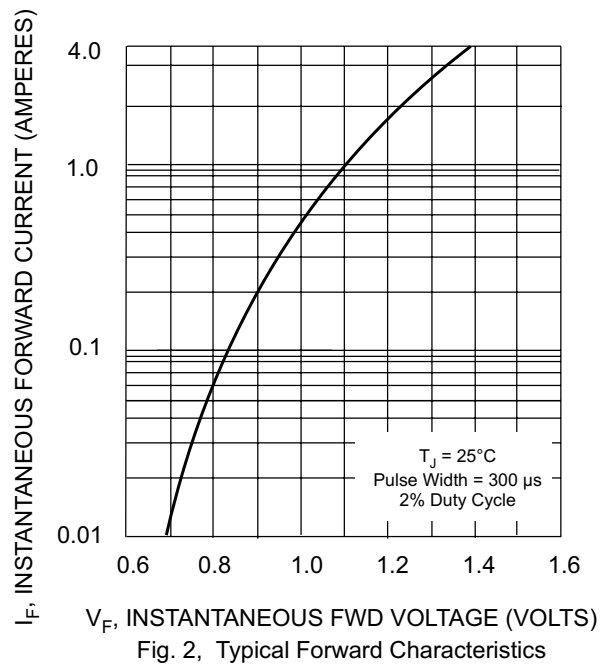
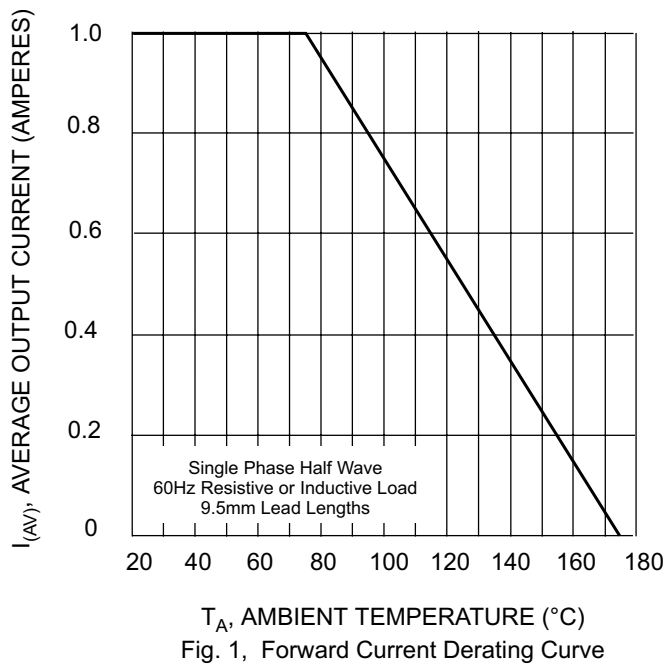
DO-41		
Dim	Min	Max
A	25.4	—
B	4.1	5.2
C	0.71	0.86
D	2.0	2.7
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	FR106	FR107	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	800	1000	V
Maximum RMS Voltage	$V_{RSM}$	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	800	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Lengths @ $T_A = 75^\circ\text{C}$	$I_{(AV)}$	1.0		A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30		A
Maximum Forward Voltage at 1.0A	$V_F$	1.3		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A = 25^\circ\text{C}$ @ $T_A = 100^\circ\text{C}$	$I_R$	5.0 100		$\mu\text{A}$
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	50		K/W
Typical Junction Capacitance (Note 2)	$C_J$	15		pF
Maximum Reverse Recovery Time (Note 3)	$T_{rr}$	250	500	ns
Storage and Operating Temperature	$T_J, T_{STG}$	-65 to +175		$^\circ\text{C}$

Notes: 1. Thermal Resistance from Junction to Ambient PC Board Mounting, 9.5mm Lead Length.  
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.  
3. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{RR} = 25\text{A}$



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[www.DatasheetCatalog.com](http://www.DatasheetCatalog.com)

Datasheets for electronic components.