

## EF1A Thru EF1J

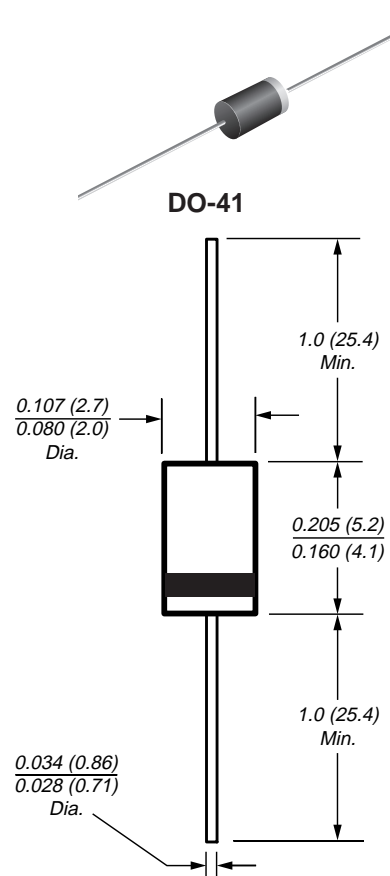
**Reverse Voltage: 50 - 600 Volts**  
**Forward Current: 1.0 Amp**

### Features

- Plastic package has Underwriters Lab. flammability classification 94V-0
- Super fast recovery time for high efficient
- Built-in strain relief
- Low forward voltage drop

### Mechanical Data

- Case: JEDEC DO-41 molded plastic body
- Terminals: solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.34 g



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Parameter	Symbol	EF1A	EF1B	EF1 D	EF1G	EF1J	Unit	
Max. Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	v	
Max. DC Blocking Voltage	VDC	50	100	200	400	600	v	
Max. RMS Voltage	VRMS	35	70	140	280	420	v	
Peak Surge Forward Current 8.3ms single halfsine-wave superimposed on rate load ( JEDEC method )	IFSM	30						A
Max. Average Forward Current	Io	1.0						A
Max. Instantaneous Forward Current at 1.0 A	VF	0.875			1.1	1.25	V	
Reverse recovery time	Trr	25			35	50	nS	
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=100°C	IR	5.0 250					uA	
Max. Thermal Resistance (Note 1)	RθJL	25					°C/W	
Operating Junction Temperature	Tj	-55 to +150					°C	
Storage Temperature	TSTG	-55 to +150					°C	

## Rating and Characteristic Curves (EF1A Thru EF1J)

Fig. 1 - Reverse Characteristics

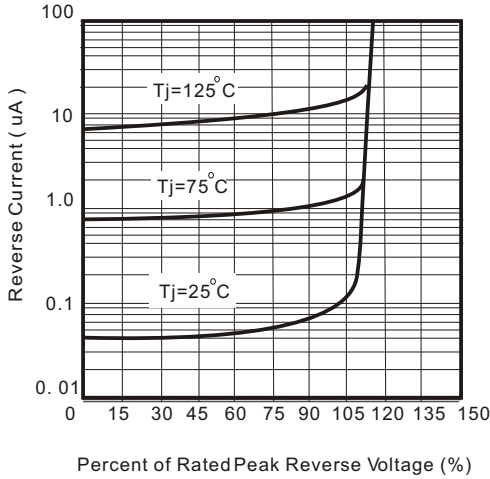


Fig.2 - Forward Characteristics

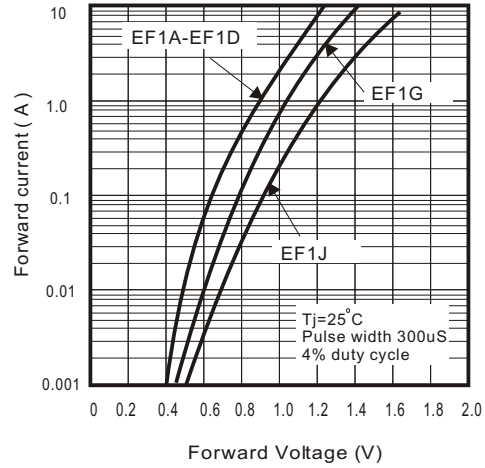


Fig. 3 - Junction Capacitance

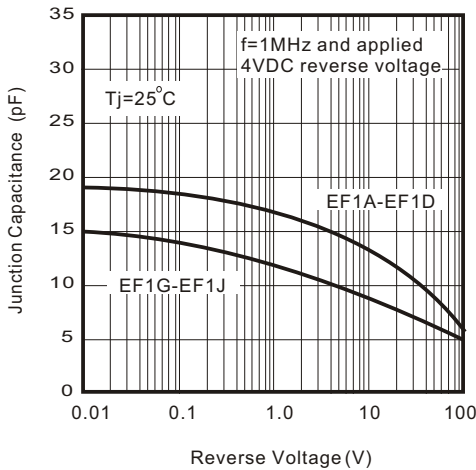


Fig. 4 - Non Repetitive Forward Surge Current

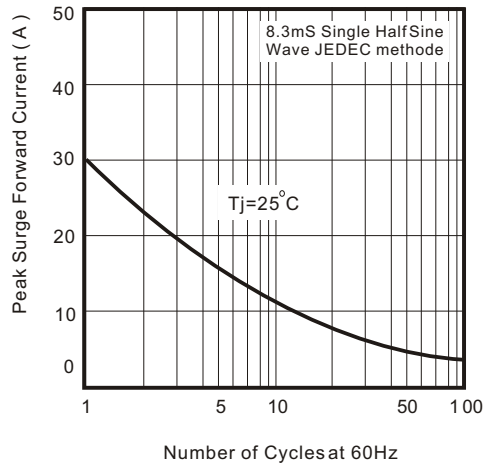
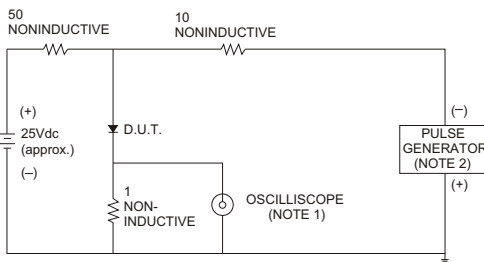


Fig. 5 - Test Circuit Diagram and Reverse Recovery Time Characteristics



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm, 22pF.  
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

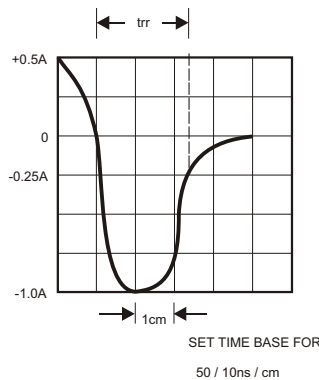


Fig. 6 - Current Derating Curve

