

DO-41 Plastic-Encapsulate Diodes

Fast Recovery Rectifier

Features

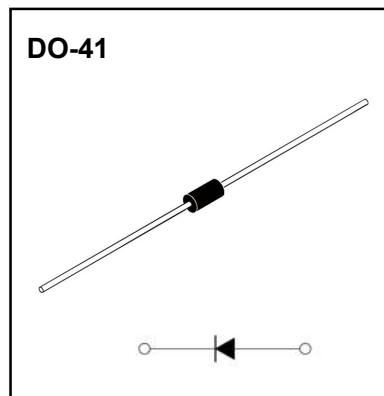
- I_O 1A
- V_{RRM} 50V-1000V
- High surge current capability
- Polarity: Color band denotes cathode

Applications

- Rectifier

Marking

- FR10X
X: From 1 to 7



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	FR						
				101	102	103	104	105	106	107
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V		35	70	140	280	420	560	700
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_a=75^{\circ}C$	1.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$	30						
Junction Temperature	T_J	$^{\circ}C$		-55 ~ +150						
Storage Temperature	T_{STG}	$^{\circ}C$		-55 ~ +150						

Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Conditions		FR					
					101	102	103	104	105	106
Peak Forward Voltage	V _{FM}	V	I _{FM} =1.0A		1.3					
Peak Reverse Current	I _{RRM1}	μA	V _{RM} =V _{RRM}	T _a =25℃	5					
	T _a =125℃			50						
Reverse Recovery time	t _{rr}	ns	I _F =0.5A I _R =1A I _{RR} =0.25A		150			250	500	
Thermal Resistance(Typical)	R _{θJ-A}	℃/W	Between junction and ambient		55					
	R _{θJ-L}		Between junction and lead		25					

Typical Characteristics

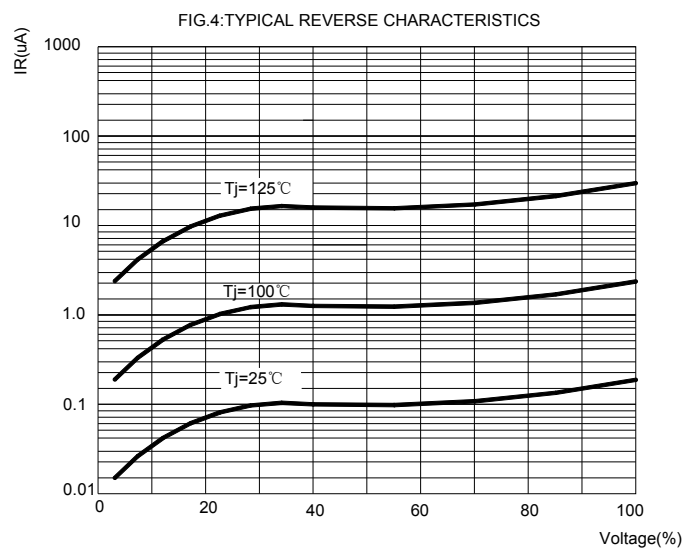
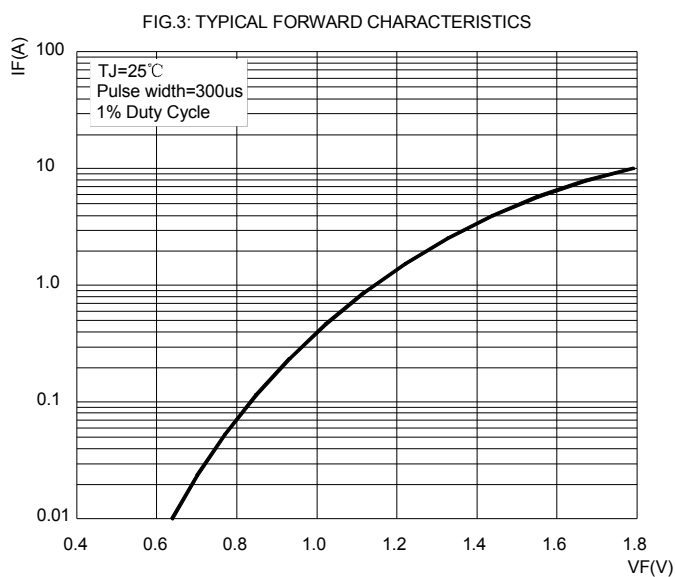
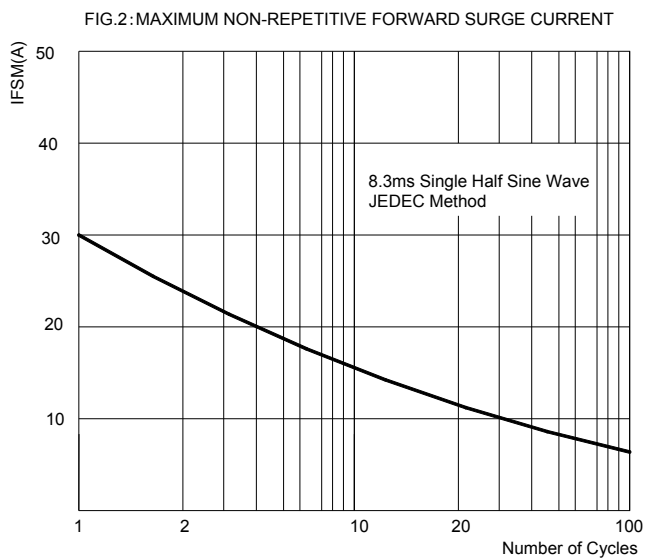
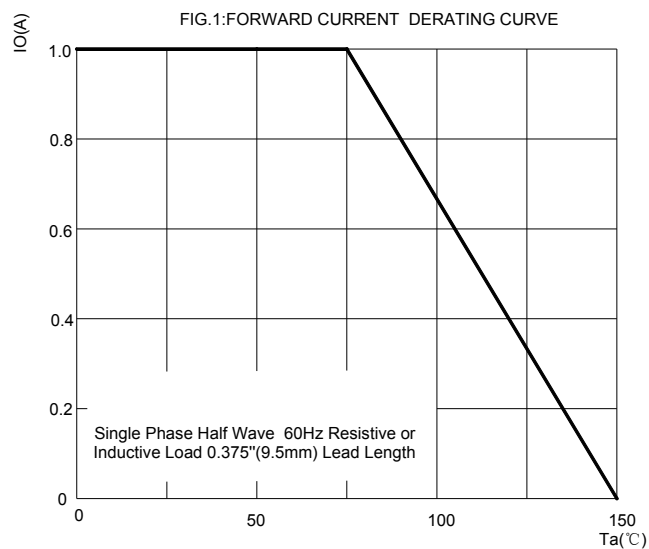
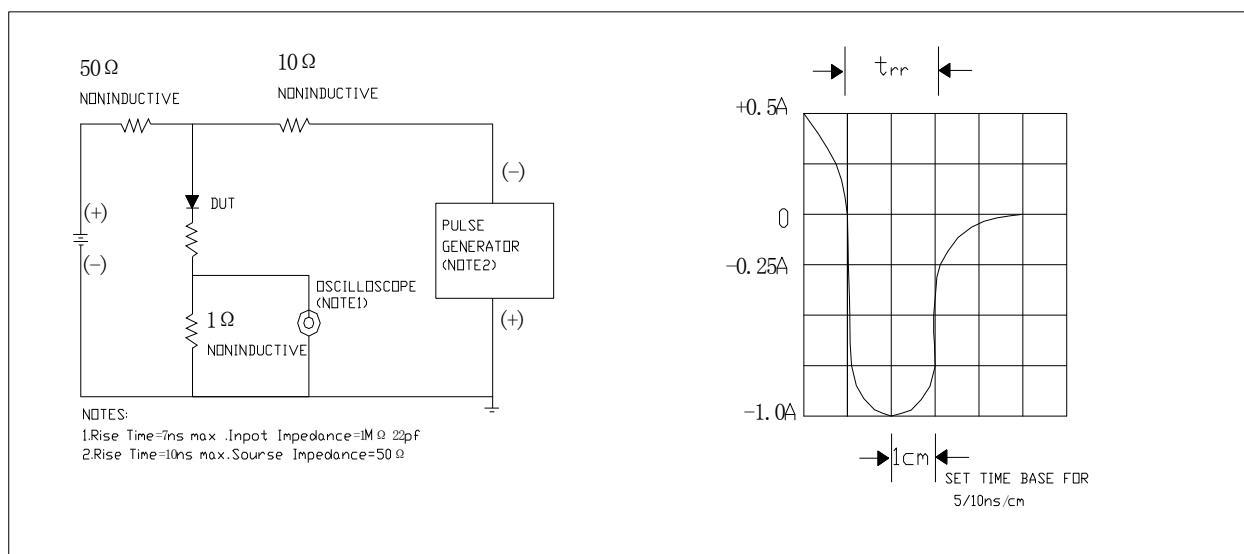
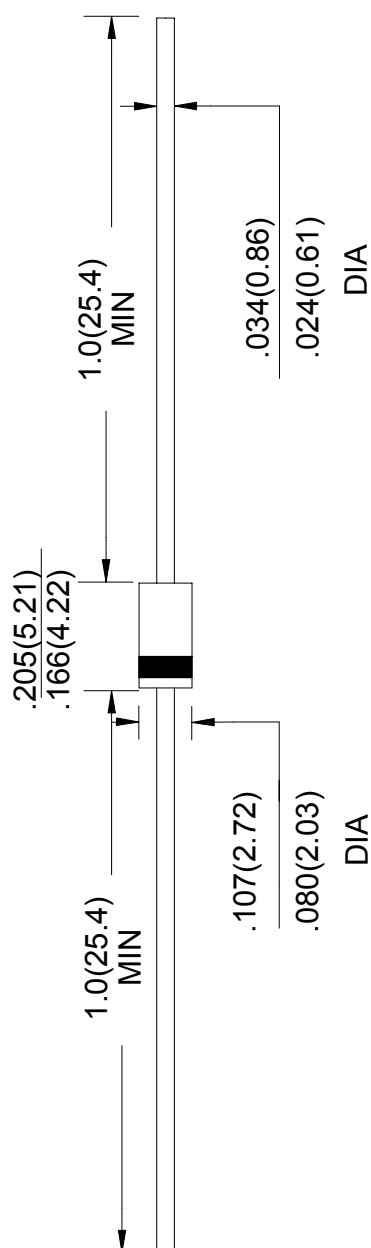


FIG5: Diagram of circuit and Testing wave form of reverse recovery time





Unit: in inches (millimeters)

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