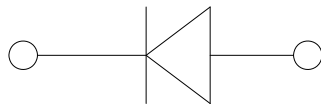
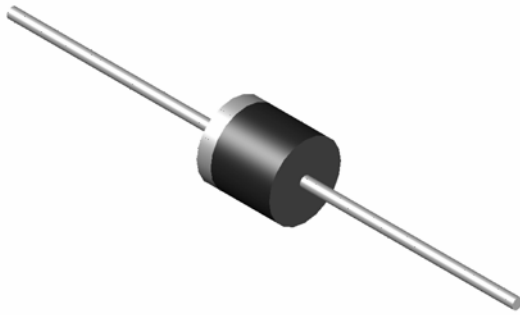


Fast Recovery Rectifier



Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Mechanical Data

- **Package:** R-6
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes cathode end

■Maximum Ratings (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	FR601	FR602	FR603	FR604	FR605	FR606	FR607
Device marking code			FR601	FR602	FR603	FR604	FR605	FR606	FR607
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta=65	I _{F(AV)}	A	6.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25	I _{FSM}	A	200						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			400						
Current squared time @1ms≤t≤8.3ms Tj=25 Rating of per diode	I ² t	A ² s	166						
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	Cj	pF	70				56		
Storage Temperature	Tstg		-55 ~ +150						
Junction Temperature	Tj		-55 ~ +150						

■Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	FR601	FR602	FR603	FR604	FR605	FR606	FR607
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=6.0A	1.3						
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μA	Tj=25	2.5						
			Tj=125	100						
Maximum reverse recovery time	tr	ns	IF=0.5A, IR=1.0A, IIR=0.25A	150				250	500	

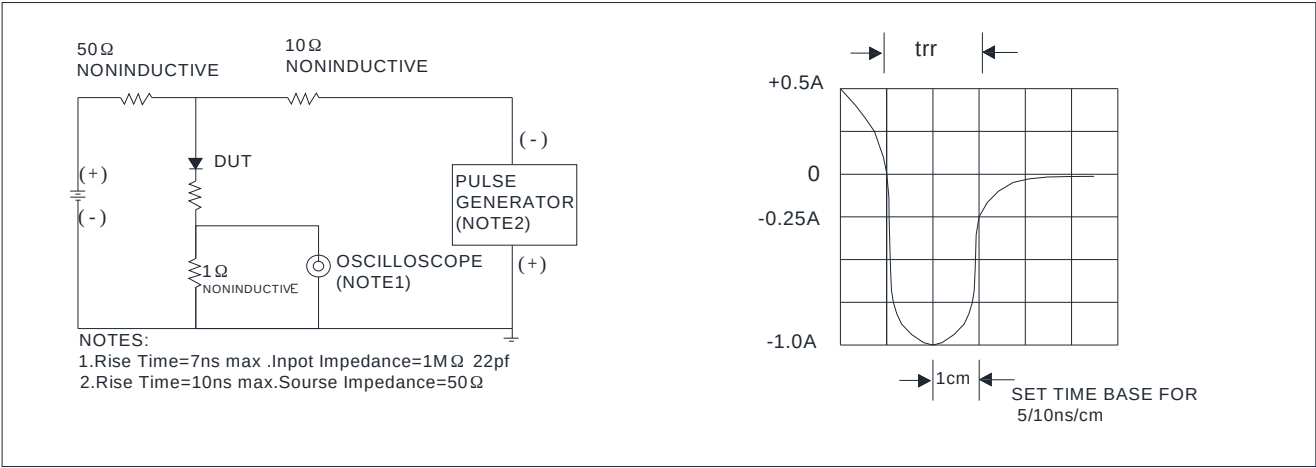
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5HY 1RY

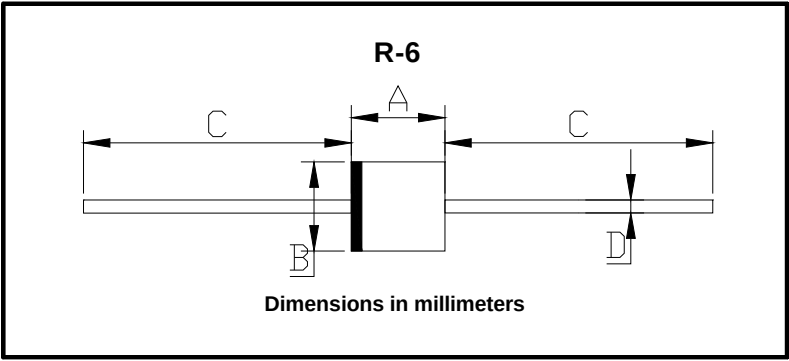


FR601 THRU FR607

FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions



R-6		
Dim	Min	Max
A	8.60	9.10
B	8.60	9.10
C	25.4	/
D	1.20	1.32

