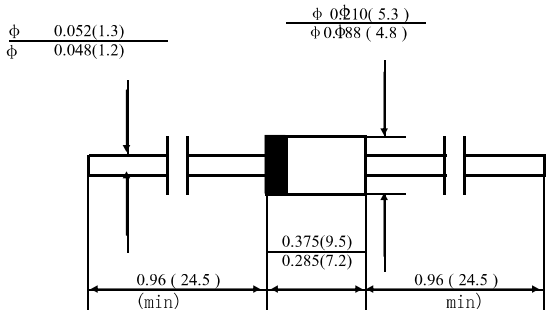
■ Features

- I_o 5.0A
- VRRM 50V-600V
- High surge current capability

DO-27



inch (mm)

Outline Dimensions and Mark

■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	SF							
				51	52	53	54	55	56	57	58
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	150	200	300	400	500	600
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, Ta=50℃	5.0							
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave,1 cycle, Ta=25℃	150							
Junction Temperature	T_J	℃		-55~+125							
Storage Temperature	T_{STG}	℃		-55 ~ +150							

■ Electrical Characteristics (T_a=25℃ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		SF							
					51	52	53	54	55	56	57	58
Peak Forward Voltage	V_{FM}	V	I_{FM}=5.0A		0.95				1.3		1.7	
Peak Reverse Current	I_{RRM1}	μA	V_{RM}=V_{RRM}	T_a=25℃	5							
	I_{RRM2}			T_a=100℃	50							
Reverse Recovery time	t_{rr}	ns	I_F=0.5A I_R=1A I_{RR}=0.25A		35							
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		30							
	$R_{\theta J-L}$		Between junction and lead		10							

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

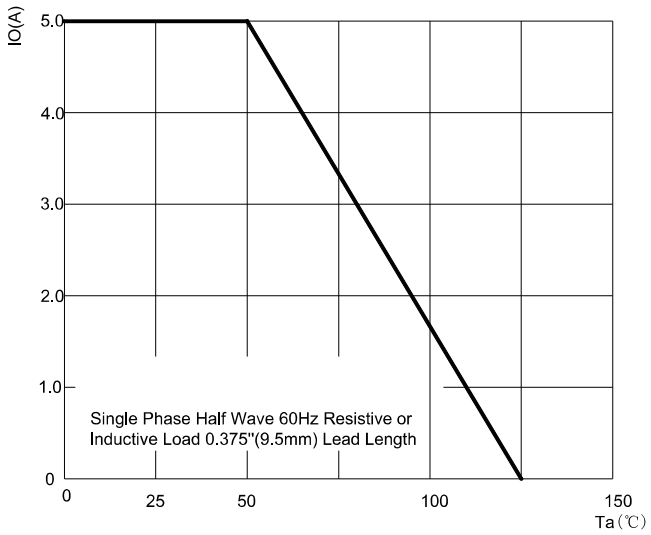


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

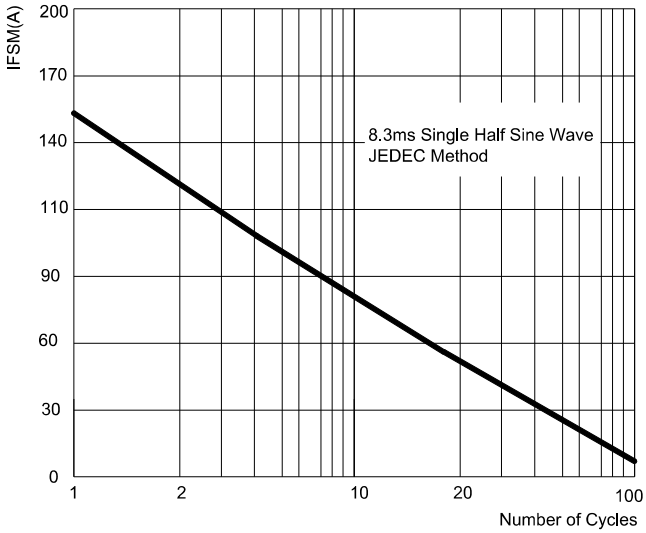


FIG.3: TYPICAL FORWARD CHARACTERISTICS

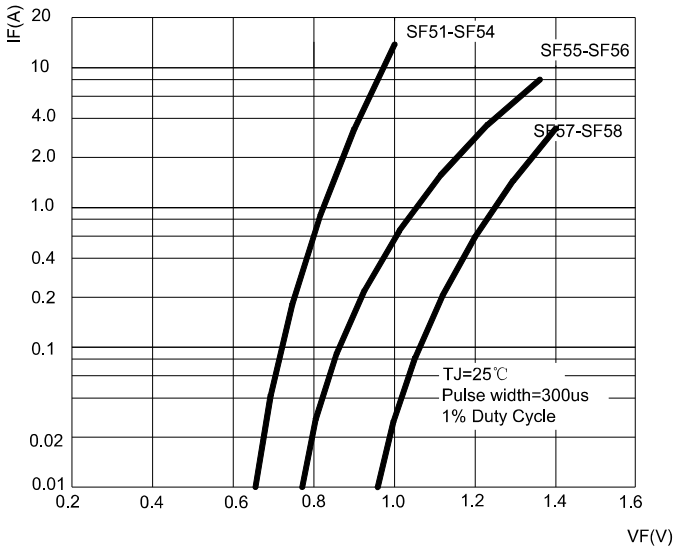


FIG.4:TYPICAL REVERSE CHARACTERISTICS

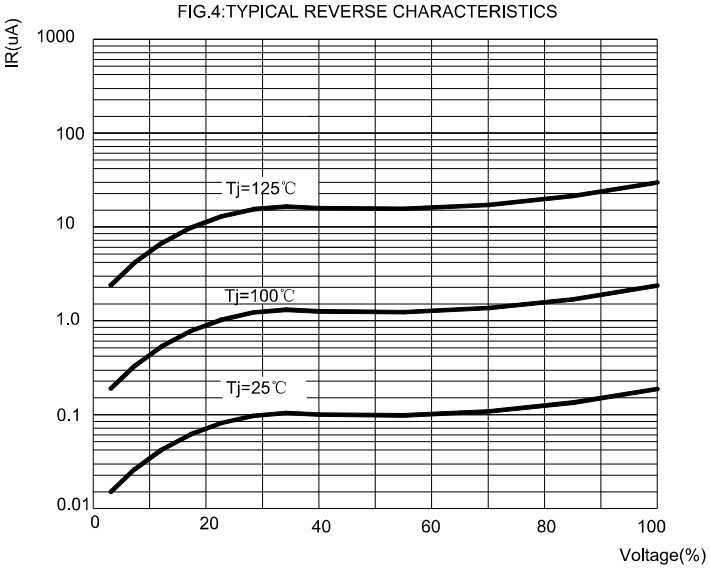


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

