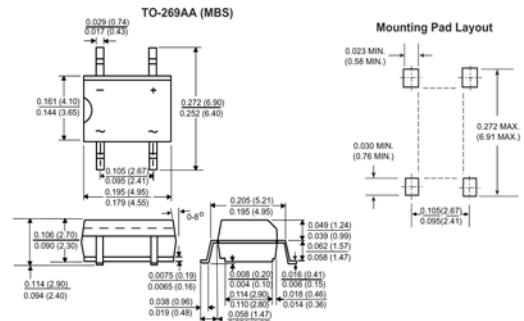
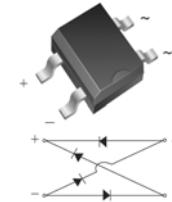




## Fast Recovery Diode Bridge Rectifier

### ■ Features

- $I_o$  0.8A
- $V_{RRM}$  100V~1000V
- $t_{rr}$  50ns
- Glass passivated chip
- High surge forward current capability



Package outline dimensions in inches (millimeters)

### ■ Applications

- General purpose 1 phase Bridge rectifier applications

### ■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	MBUS1							
				BS	DS	GS	JS	KS	MS		
Repetitive Peak Reverse Voltage	$V_{RRM}$	V				100	200	400	600	800	1000
Average Rectified Output Current	$I_o$	A	60Hz sine wave, R-load, $T_a=25^\circ C$	On alumina substrate			0.8				
			On glass-epoxy substrate			0.5					
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz sine wave, 1 cycle, $T_j=25^\circ C$			30					
Current Squared Time	$I^2t$	$A^2S$	$1ms \leq t < 8.3ms$ , $T_j=25^\circ C$ , Rating of per diode			3.7					
Storage Temperature	$T_{stg}$	°C				-55 ~+150					
Junction Temperature	$T_j$	°C				-55 ~+125					



## MBUS1BS ~ MBUS1MS

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

Item	Symbol	Unit	Test Condition	Max									
				BS	DS	GS	JS	KS	MS				
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=0.4\text{A}$ , Pulse measurement, Rating of per diode	1.0		1.30	1.70						
Peak Reverse Current	$I_{RRM}$	$\mu\text{ A}$	$V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode	10									
Reverse Recovery Time	$t_{rr}$	ns	$IF=0.5\text{A}$ $IRM=1\text{A}$ $IRR=0.25\text{A}$	50		75							
Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	Between junction and ambient, On alumina substrate	76									
			Between junction and ambient, On glass-epoxi substrate	134									
	$R_{\theta J-L}$		Between junction and lead	20									

## ■ Characteristics (Typical)

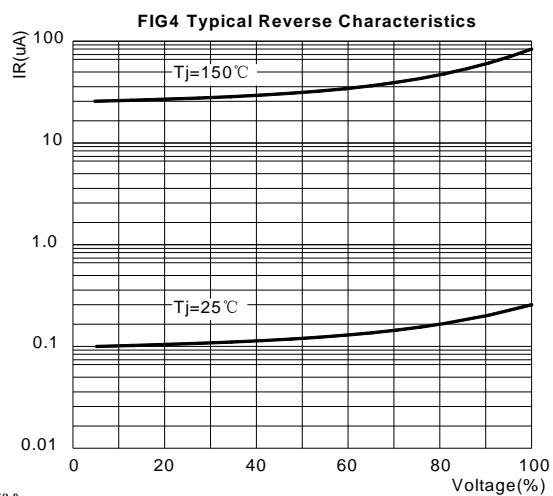
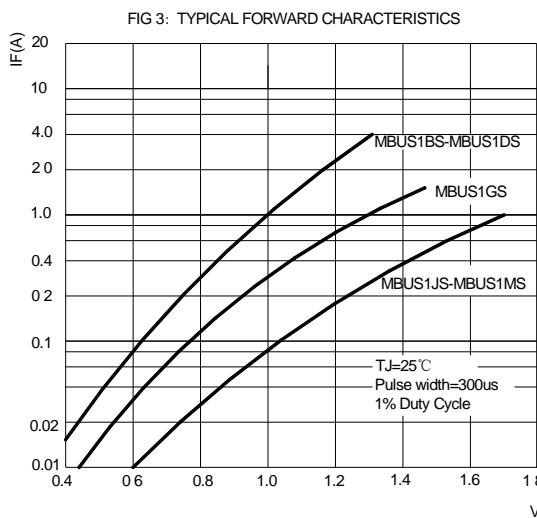
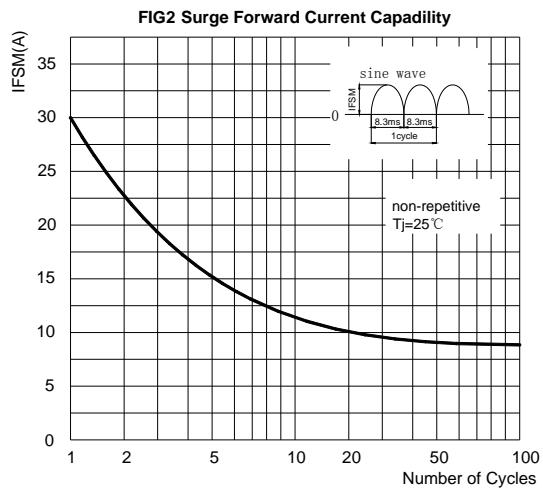
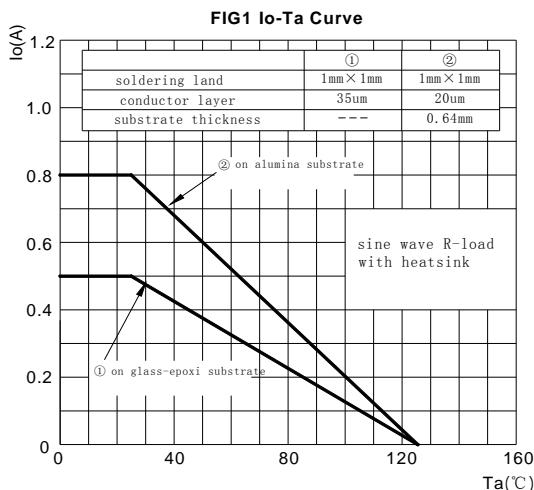


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

