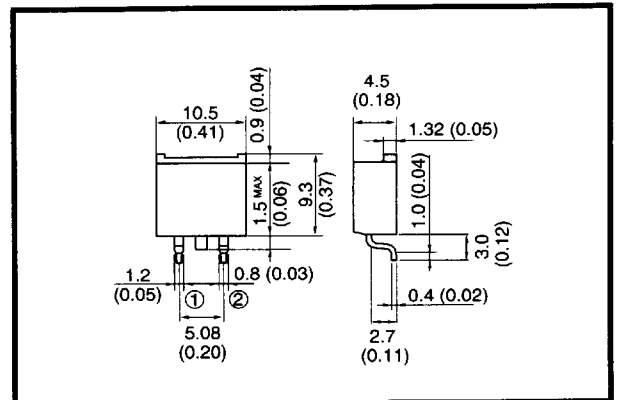


# TS912S6 (10A)



## FAST RECOVERY RECTIFIER DIODE

## Outline Drawing



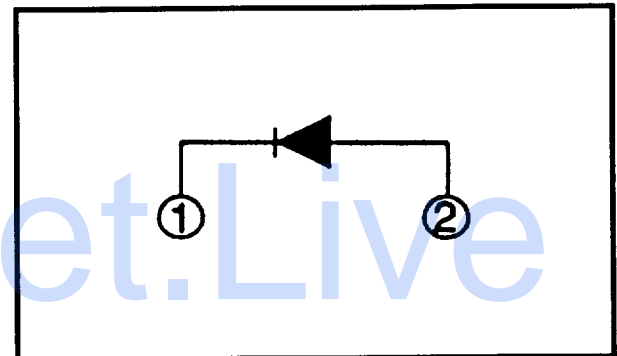
## Features

- Surface mount device
- High voltage by mesa design
- High reliability

## Applications

- High speed power switching

## Connection Diagram



## Maximum Ratings & Characteristics

### Absolute Maximum Ratings

Items	Symbols	Conditions	Ratings	Units
Repetative Peak Reverse Voltage	$V_{RRM}$		600	V
Average Output Current	$I_o$	$T_c = 105^\circ\text{C}$ , duty = 1/2, Sq. wave	10*	A
Surge Current	$I_{FSM}$	Sine Wave, 10ms	80	A
Operating Junction Temperature	$T_J$		-40 to +150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-40 to +150	$^\circ\text{C}$

\* Output current of centertap full wave connection.

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

Items	Symbols	Conditions	Ratings	Units
Forward Voltage Drop	$V_F$	$I_F = 10\text{A}$	1.7	V
Reverse Current	$I_R$	$V_R = V_{RRM}$	0.5	mA
Reverse Recovery Time	$t_{rr}$	$I_F = 0.1\text{A}$ , $I_R = 0.2\text{A}$	50	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	2.5	$^\circ\text{C/W}$