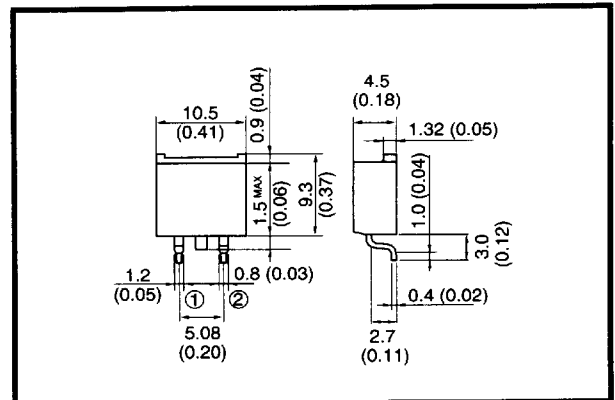


TS912S6 (10A)



FAST RECOVERY RECTIFIER DIODE

Outline Drawing



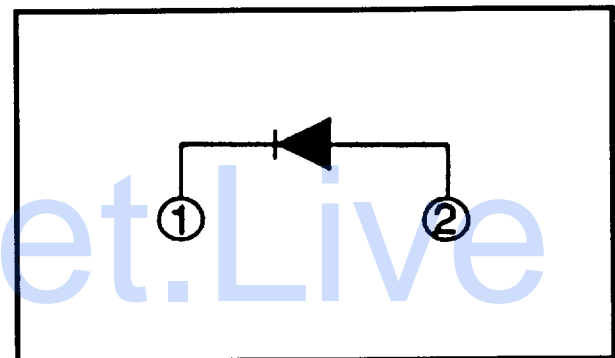
Features

- 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	$^\circ\text{C/W}$