

Contribute to shorten the charging time of strobe circuit

# High-voltage fast recovery diode MA2YF80

## ■ Overview

MA2YF80 is a Fast Recovery Diode, adequate for high-voltage. As the device has high-speed trr characteristic and Low IR (Peak) characteristic, it enables to reduce switching-loss drastically. Ultra-thin surface mounting package is adopted and it enables stable mounting accuracy to improve mounting efficiency by a flat lead type package (0.8mm thickness and  $3.5 \times 1.6$ mm external configuration, including a lead terminal. )

## ■ Feature

- High-speed trr and low  $I_R$  (peak) characteristics.
- Low switching loss
- Realized the ultra-thin package (Comparison with the conventional products: from 1.1mm to 0.8mm)
- Flat lead type specification improved mounting accuracy and soldering strength.

## ■ Applications

DSC strobe circuit (contributes to shorten the charging time)  
High-speed switching circuit

## ■ Main Specifications

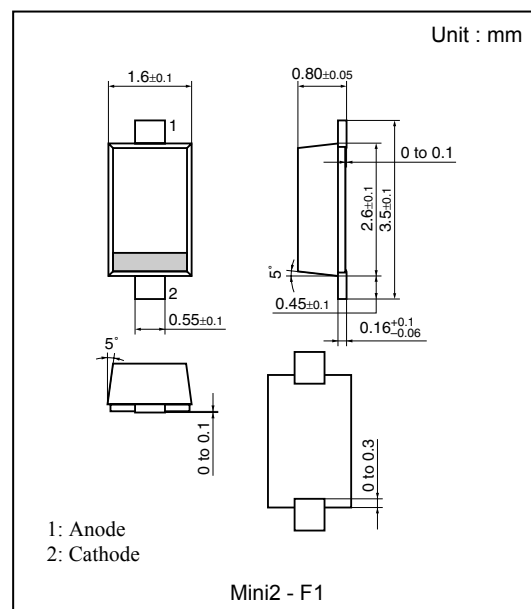
- Absolute Maximum Rating ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_{RRM}$	800	V
Peak reverse voltage	$V_{RSM}$	800	V
Forward current	$I_F$	200	mA
Non-repetitive peak forward surge current*1	$I_{FSM}$	1	A
Junction temperature	$T_j$	-40 to +150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +150	$^\circ\text{C}$

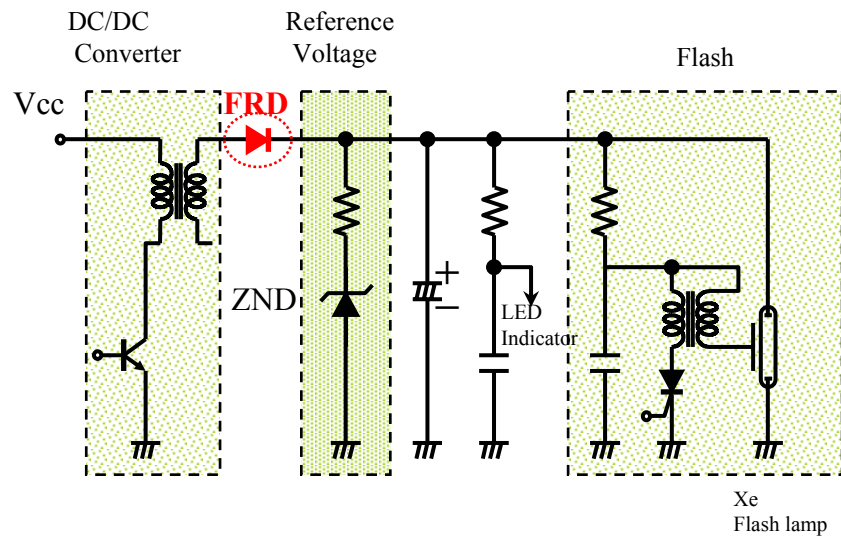
Note) \*1 : The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

- Electrical Characteristics ( $T_a=25^\circ\text{C}$ )

Part Number	Forward voltage $V_F$ (max) at $I_F=200\text{mA}$	Reverse current $I_R$ (max) at $V_{RRM}=800\text{V}$	Terminal capacitance $C_t$ (typ)	trr (max)
MA2YF80	2.5 V	20 $\mu\text{A}$	2 pF	45 ns



## ■ Exapmle Application (Strobe circuit)



## ■ trr Characteristics

