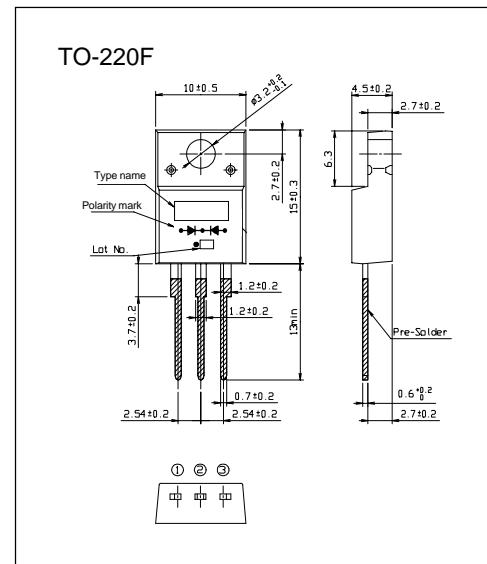


# YG838C04R (30A) (40V / 30A )

## SCHOTTKY BARRIER DIODE

## ■ Outline drawings, mm



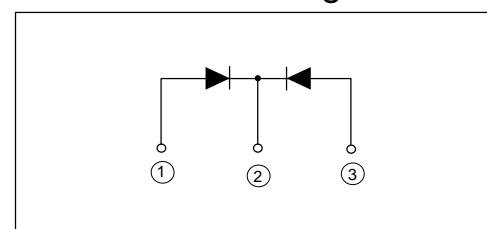
## ■ Features

- Low VF
- Super high speed switching
- High reliability by planer design

## ■ Applications

- High speed power switching

## ■ Connection diagram



## ■ Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		40	V
Non-repetitive peak reverse voltage	$V_{RSM}$	$t_w=500\text{ns}$ , duty=1/40	40	V
Average output current	$I_o$	Square wave, duty=1/2 $T_c=85^\circ\text{C}$	30*	A
Surge current	$I_{FSM}$	Sine wave 10ms	180	A
Operating junction temperature	$T_j$		-40 to +150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-40 to +150	$^\circ\text{C}$

\* Average forward current of centertap full wave connection

- Electrical characteristics (Ta=25°C Unless otherwise specified )

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=12.5\text{A}$	0.53	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	8	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.0	$^\circ\text{C/W}$

## ■ Characteristics

