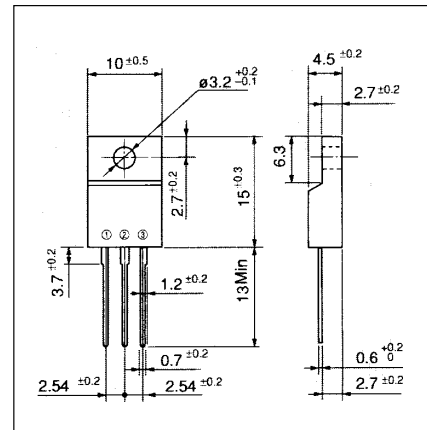


YG803C04R (40V / 15A)

[200510]

Schottky-Barrier Diode

Outline drawings, mm



Package : TO-220F
Epoxy resin UL : V-0

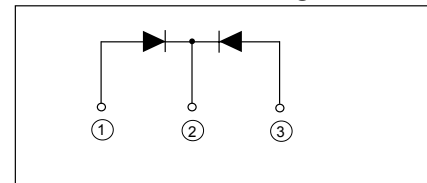
Features

- Low V_F
- Center tap connection

Applications

- High frequency operation
- DC-DC converters
- AC adapter

Connection diagram



Maximum ratings and characteristics

- Maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V_{RSM}	tw=500ns, duty=1/40	40	V
Repetitive peak reverse voltage	V_{RRM}		40	V
Isolating voltage	V_{ISO}	Terminals-to-Case, AC.1min.	1500	V
Average output current	I_o	Square wave, duty=1/2 $T_c=92^\circ\text{C}$	15 *	A
Non-repetitive surge current	I_{FSM}	Sine wave 10ms	120	A
Operating junction temperature	T_j		+150	$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to +150	$^\circ\text{C}$

* Out put current of center tap full wave connection

- Electrical characteristics (at $T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage **	V_F	$I_F=7\text{A}$	0.55	V
Reverse current **	I_R	$V_R=V_{RRM}$	3.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.5	$^\circ\text{C/W}$

**Rating per element

- Mechanical characteristics

Mounting torque	Recommended torque	0.3 to 0.5	$\text{N}\cdot\text{m}$
Approximate mass		2	g

Characteristics

