

YG803C06R (15A)

60V / 15A

Schottky barrier diode

Major characteristics

Characteristics	YG803C06	Units	Condition
V _{RRM}	60	V	
V _F	0.48	V	T _j =125°C, typ
I _o	15	A	

Features

- Low V_F
- Optimized for 3.3V
- 5V output application
- Center tap connection

Applications

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

Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V _{RSM}	tw=500ns, duty=1/40	60	V
Repetitive peak reverse voltage	V _{RRM}		60	V
Isolating voltage	V _{iso}	Terminals-to-Case, AC.1min	1500	V
Average output current	I _o	Square wave, duty=1/2 T _c =94°C	15 *	A
Non-repetitive surge current	I _{FSM}	Sine wave 10ms, 1shot	100	A
Operating junction temperature	T _j		+150	°C
Storage temperature	T _{stg}		-40 to +150	°C

* Average output current at centertap full wave connection

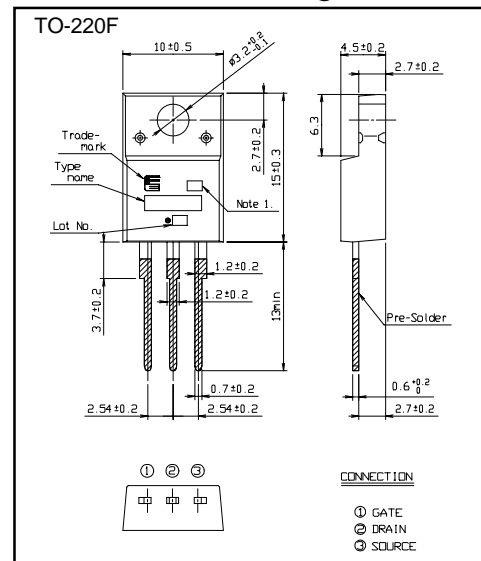
- Electrical characteristics (T_c=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V _F	I _{FM} =6A	0.58	V
Reverse current	I _R	V _R =V _{RRM}	5.0	mA

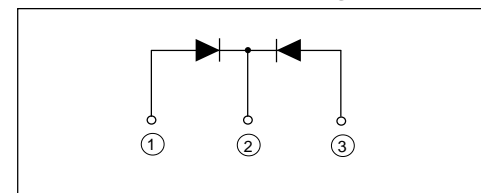
- Electrical characteristics (T_c=25°C Unless otherwise specified)

Item	Symbol	Condition	Max.	Unit
Thermal resistance	R _{th(j-c)}	Junction to case	3.0	°C/W

Outline drawings, mm

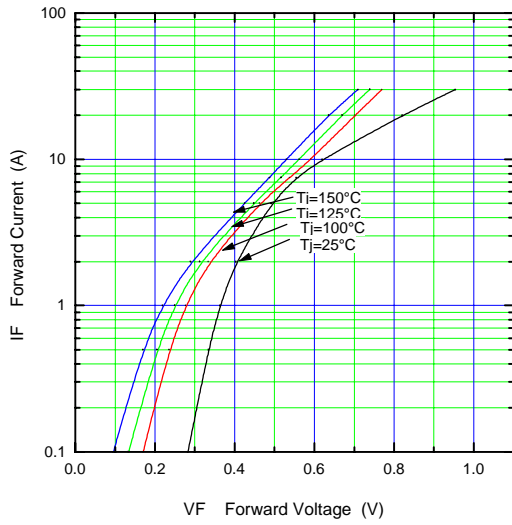


Connection diagram

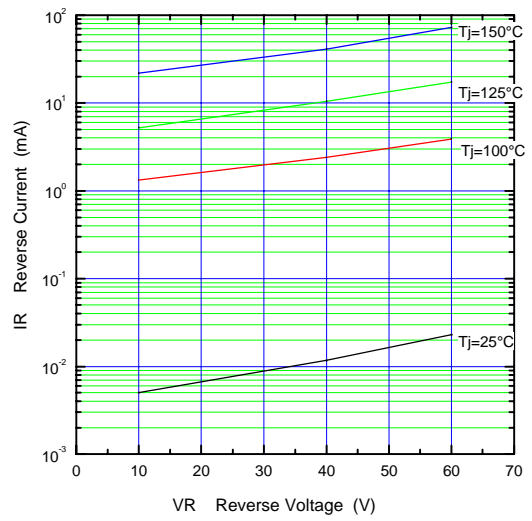


■ Characteristics

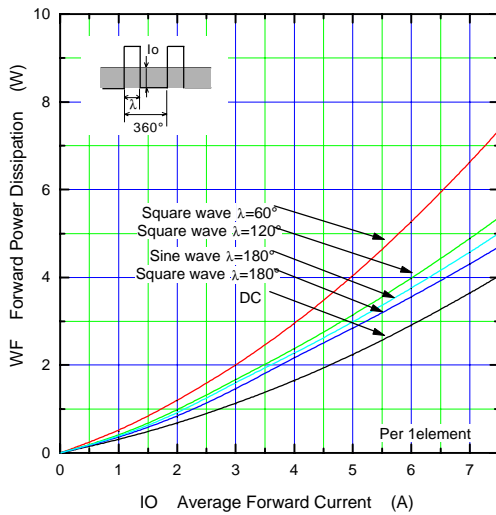
Forward Characteristic (typ.)



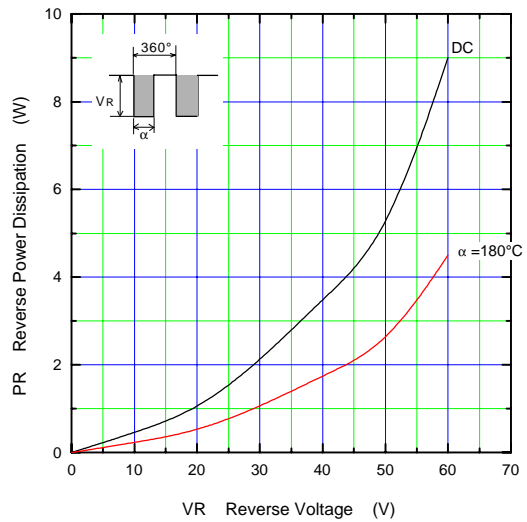
Reverse Characteristic (typ.)



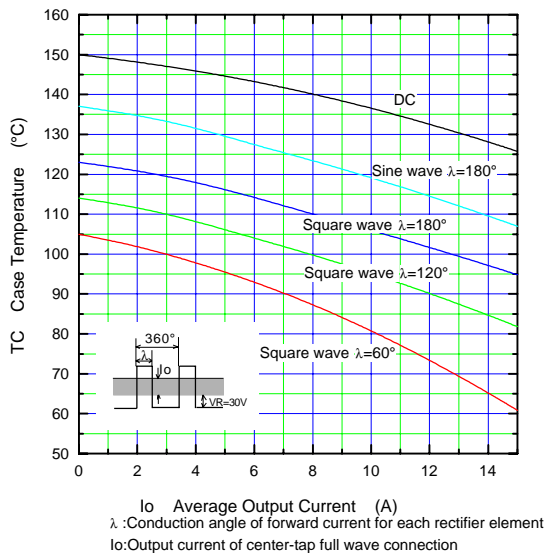
Forward Power Dissipation



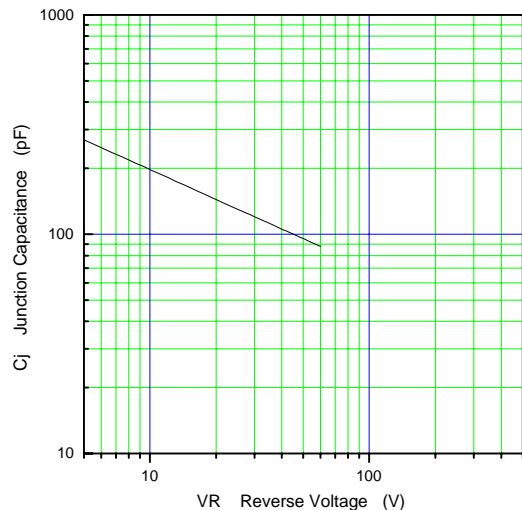
Reverse Power Dissipation



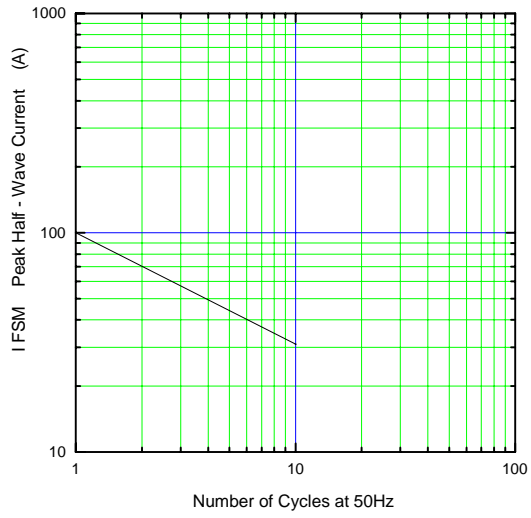
Current Derating (I_o-T_c)



Junction Capacitance Characteristic (typ.)



Surge Capability



Transient Thermal Impedance

