

YG832C03R

(30V / 12A TO-220F15)

SCHOTTKY BARRIER DIODE

■ Features

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

■ Applications

- High speed power switching.

■ Maximum Ratings and Characteristics

• Absolute Maximum Ratings

| Item | Symbol | Conditions | Rating | Unit |
|---------------------------------------|------------------|--|-------------|------|
| Repetitive peak reverse voltage | V _{RRM} | | 30 | V |
| Repetitive peak surge reverse voltage | V _{RSM} | t _w =500ns, duty=1/40 | 30 | V |
| Isolating voltage | V _{iso} | Terminals to Case, AC. 1min. | 1500 | V |
| Average output current | I _O | duty=1/2, T _c =118°C Square wave | 12* | A |
| Surge current | I _{FSM} | Sine wave 10ms | 120 | A |
| Operating junction temperature | T _j | | +150 | °C |
| Storage temperature | T _{stg} | | -40 to +150 | °C |

* Out put current of center tap full wave connection.

• Electrical Characteristics (Ta=25°C Unless otherwise specified)

| Item | Symbol | Conditions | Max. | Unit |
|-------------------------|----------------------|----------------------------------|------|------|
| Forward voltage drop ** | V _F | I _F =4.0A | 0.45 | V |
| Reverse current ** | I _R | V _R =V _{RRM} | 5.0 | mA |
| Thermal resistance | R _{th(j-c)} | Junction to case | 3.5 | °C/W |

** Rating per element

• Mechanical Characteristics

| | | | |
|-----------------|--------------------|------------|-------|
| Mounting torque | Recommended torque | 0.3 to 0.5 | N · m |
| Weight | | 2.0 | g |

■ Characteristics



