

YG225C4,N4,D4 (10A)

(400V / 10A)

FAST RECOVERY DIODE

Features

- Insulated package by fully molding
- High voltage by mesa design
- High reliability

Applications

- High speed switching

Maximum ratings and characteristics

- Absolute maximum ratings

| Item | Symbol | Conditions | Rating | Unit |
|-------------------------------------|-----------|--|-------------|-------------|
| Repetitive peak reverse voltage | V_{RRM} | | 400 | V |
| Non-repetitive peak reverse voltage | V_{RSM} | | 450 | V |
| Isolating voltage | V_{iso} | Terminals-to-Case, AC, 1min | 1500 | V |
| Average output current | I_o | Square wave, duty=1/2, $T_c=95^{\circ}C$ | 10* | A |
| Surge current | I_{FSM} | Sine wave 10ms | 70 | A |
| Operating junction temperature | T_j | | +150 | $^{\circ}C$ |
| Storage temperature | T_{stg} | | -40 to +150 | $^{\circ}C$ |

* Average forward current of centertap full wave connection

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

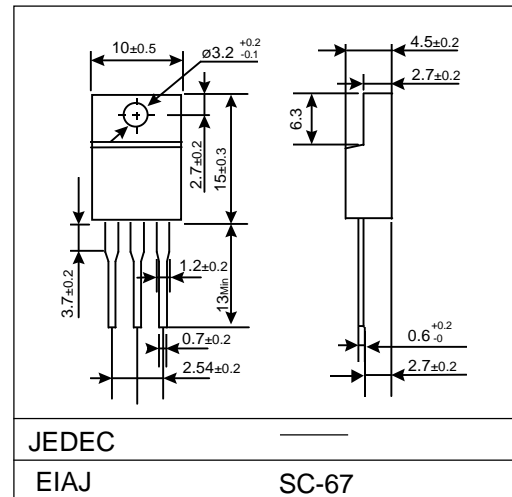
| Item | Symbol | Conditions | Max. | Unit |
|-------------------------|---------------|-------------------------------------|------|---------------|
| Forward voltage drop ** | V_{FM} | $I_{FM}=2.5A$ | 1.3 | V |
| Reverse current ** | I_{RRM} | $V_R=V_{RRM}$ | 50 | μA |
| Reverse recovery time | t_{rr} | $I_F=0.1A, I_R=0.1A, I_{rec}=0.01A$ | 0.4 | μs |
| Thermal resistance | $R_{th(j-c)}$ | Junction to case | 3.5* | $^{\circ}C/W$ |

** Rating per element

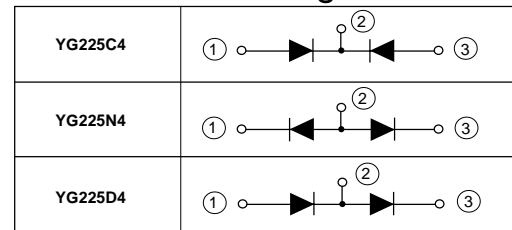
- Mechanical characteristics

| | | | |
|--------------------|--------------------|------------|-----|
| Mounting torque | Recommended torque | 0.3 to 0.5 | N-m |
| Approximate weight | | 2.3 | g |

Outline drawings, mm

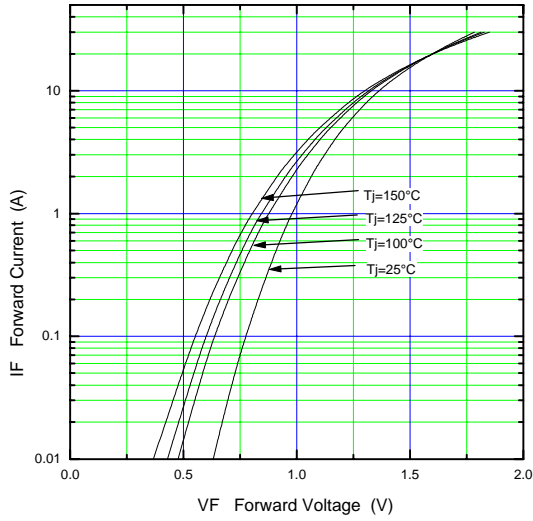


Connection diagram

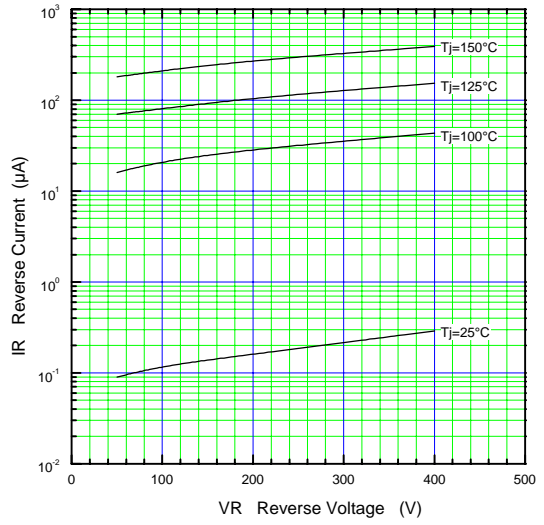


Characteristics

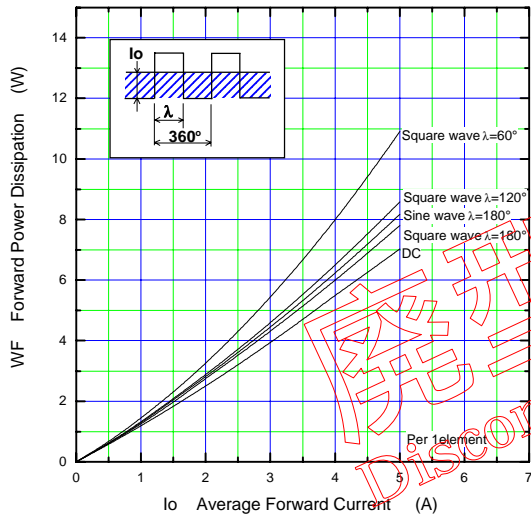
Forward Characteristic (typ.)



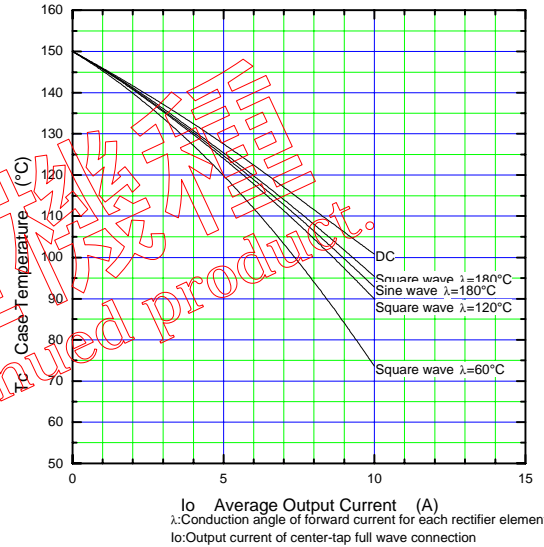
Reverse Characteristic (typ.)



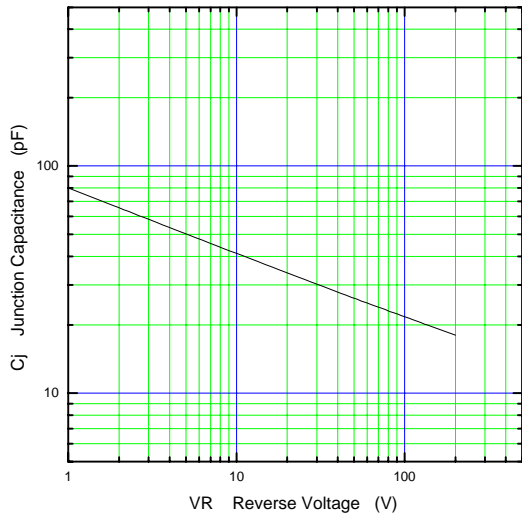
Forward Power Dissipation



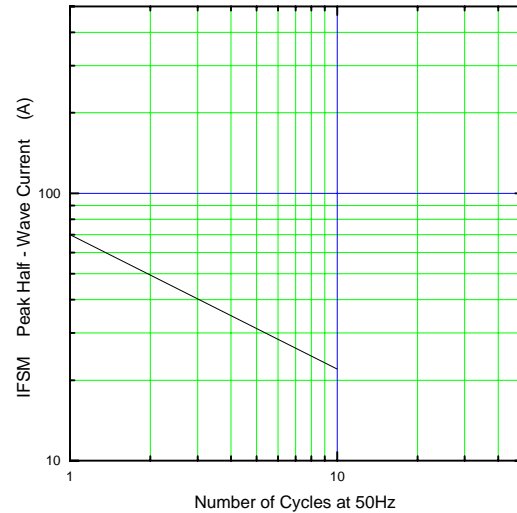
Current Derating (I_o-T_c)



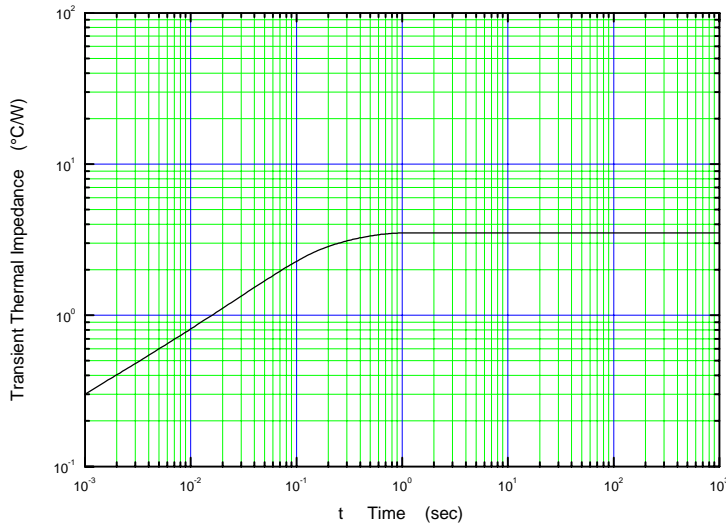
Junction Capacitance Characteristic (typ.)



Surge Capability



Transient Thermal Impedance



廢型機種
Discontinued product.