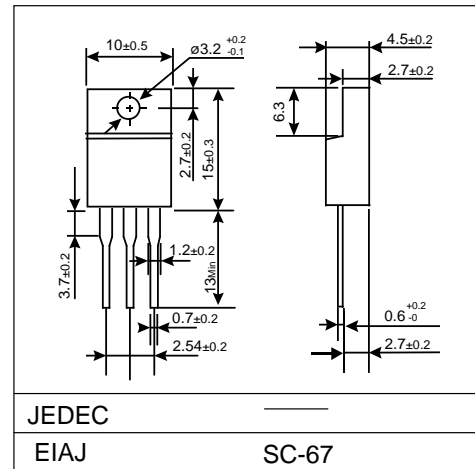


# YG225C8,N8,D8 (10A)

(800V / 10A)

## FAST RECOVERY DIODE

### Outline drawings, mm [0502]



### 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	$V_{RRM}$		800	V
Non-repetitive peak reverse voltage	$V_{RSM}$		850	V
Isolating voltage	$V_{iso}$	Terminals-to-Case, AC.1min	1500	V
Average output current	$I_o$	Square wave, duty=1/2, $T_c=95^\circ\text{C}$	10*	A
Surge current	$I_{FSM}$	Sine wave 10ms	70	A
Operating junction temperature	$T_j$		+150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-40 to +150	$^\circ\text{C}$

\*Average forward current of centertap full wave connection

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

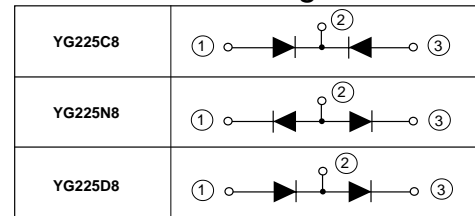
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	$V_{FM}$	$I_{FM}=2.5\text{A}$	1.5	V
Reverse current **	$I_{RRM}$	$V_R=V_{RRM}$	50	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F=0.1\text{A}$ , $I_R=0.1\text{A}$ , $I_{rec}=0.01\text{A}$	0.4	$\mu\text{s}$
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.5*	$^\circ\text{C/W}$

\*\* Rating per element

- Mechanical characteristics

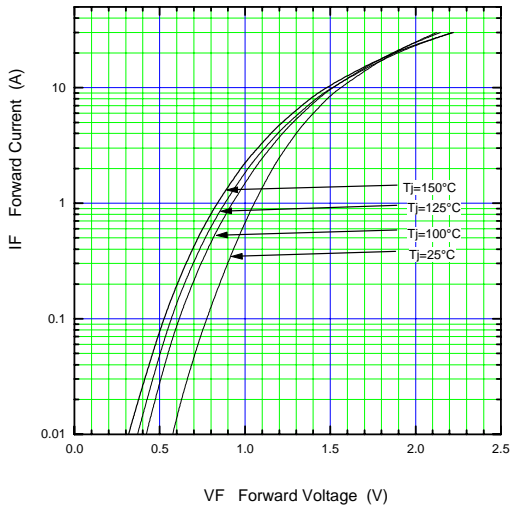
Mounting torque	Recommended torque	0.3 to 0.5	N·m
Approximate weight		2.3	g

### Connection diagram

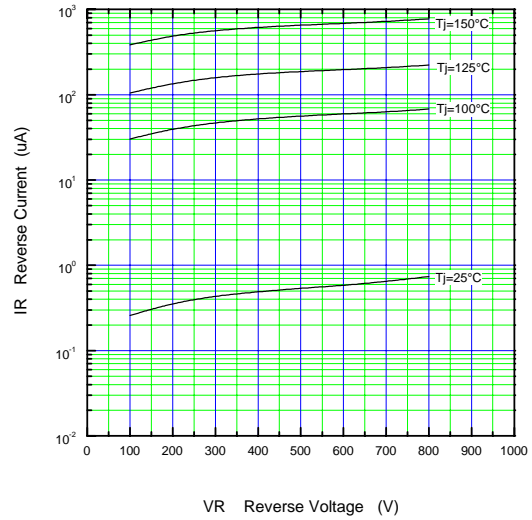


Characteristics

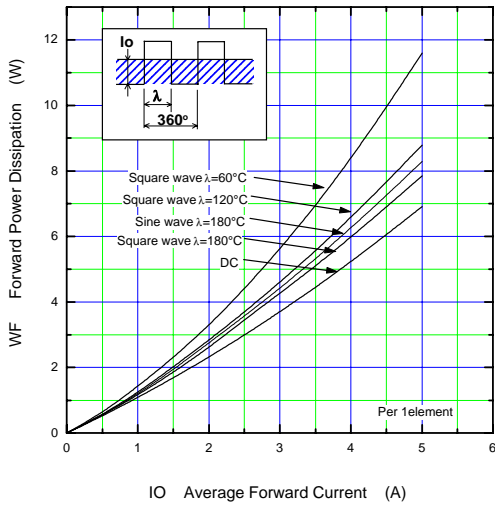
Forward Characteristic (typ.)



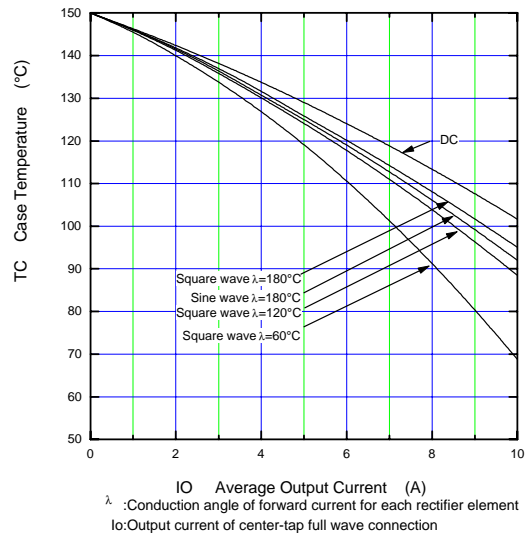
Reverse Characteristic (typ.)



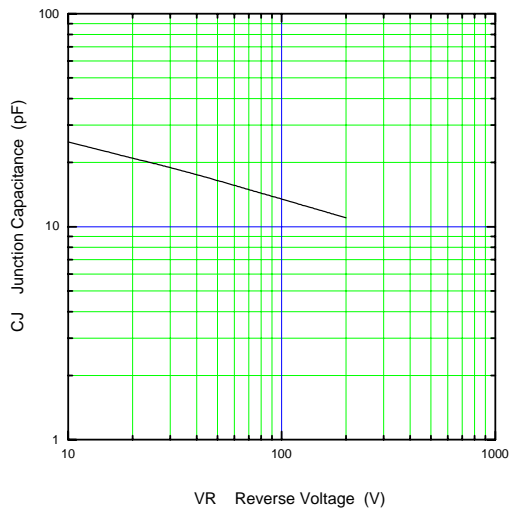
Forward Power Dissipation



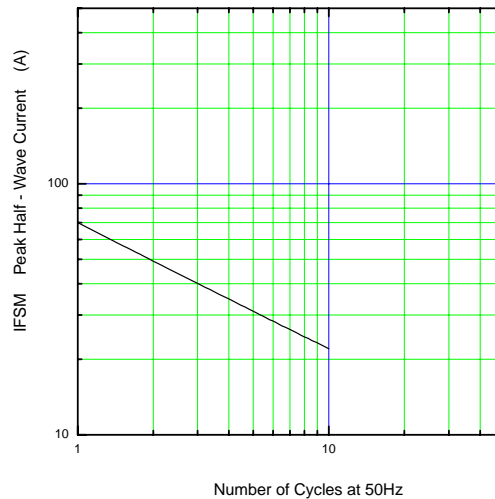
Current Derating (Io-Tc)



Junction Capacitance Characteristic (typ.)



Surge Capability



Transient Thermal Impedance

