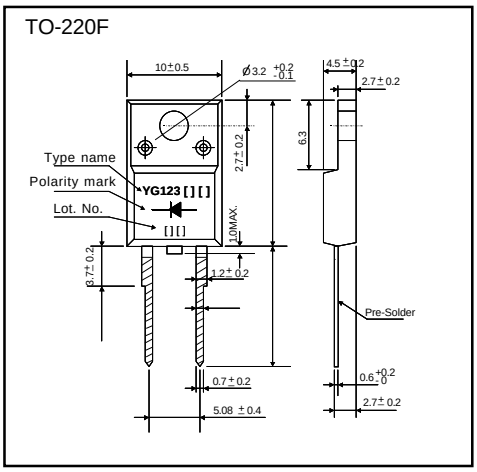
YG123S15 (6A) (1500V / 6A)

Fast recovery diode

■ Outline drawings, mm

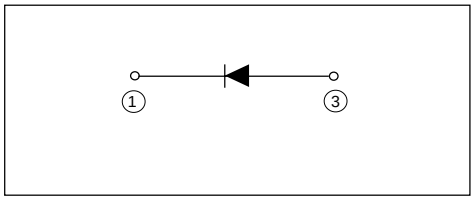
TO-220F



■ Features

- Damper diode for high definition TV and high resolution display
- Insulated package by fully molding
- High voltage by mesa design
- High reliability

■ Connection diagram



■ Applications

- High speed switching

■ Maximum ratings and characteristics

● Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		1500	V
Non-Repetitive peak reverse voltage	V_{RSM}		1500	V
Isolating voltage	Viso	Terminals-to-Case, AC.1min	1500	V
Average output current	Io	Square wave, duty=1/2 Tc=92°C	6	A
Non-repetitive surge current	I_{FSM}	Sine wave 10ms, 1shot	80	A
Operating junction temperature	T_j		+150	°C
Storage temperature	T_{stg}		-40 to +150	°C

● Electrical characteristics (Tc=25°C Unless otherwise specified)

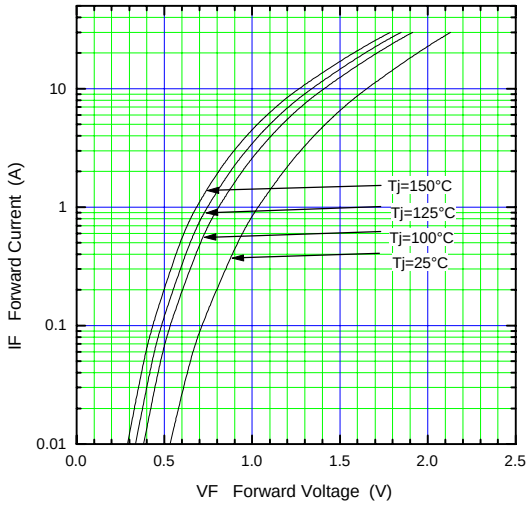
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_F	I_F=4A	2.0	V
Reverse current	I_R	V_R=V_{RRM}	50.0	μA
Reverse recovery time	trr	I_F=0.1A, I_R=0.1A	0.5	μs

● Electrical characteristics (Tc=25°C Unless otherwise specified)

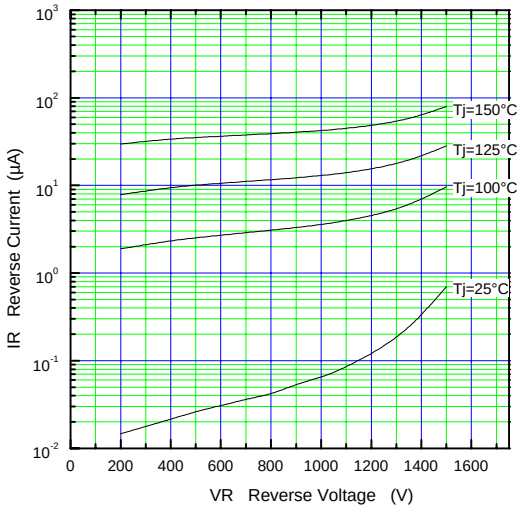
Item	Symbol	Condition	Max.	Unit
Thermal resistance	Rth(j-c)	Junction to case	3.5	°C/W

■ Characteristics

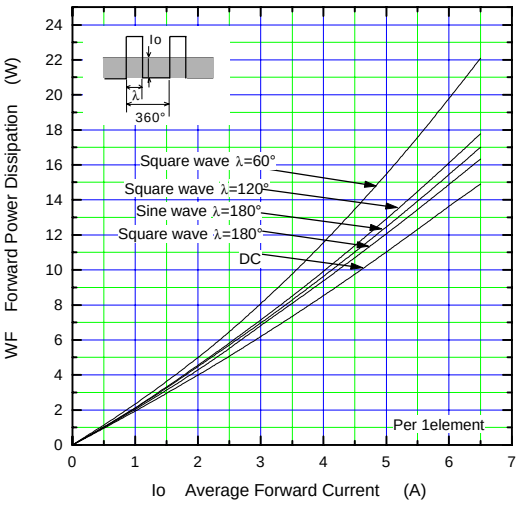
Forward Characteristic (typ.)



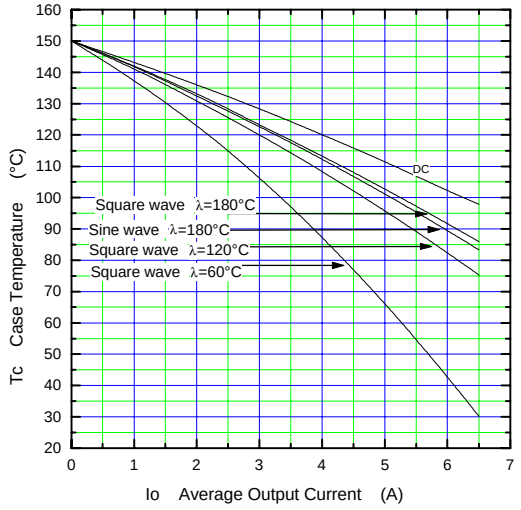
Reverse Characteristic (typ.)



Forward Power Dissipation

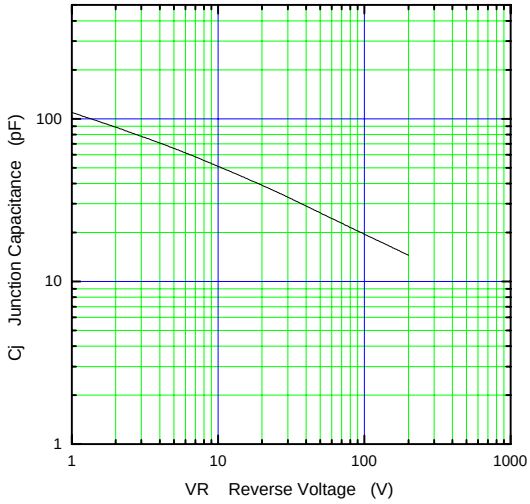


Current Derating (Io-Tc)

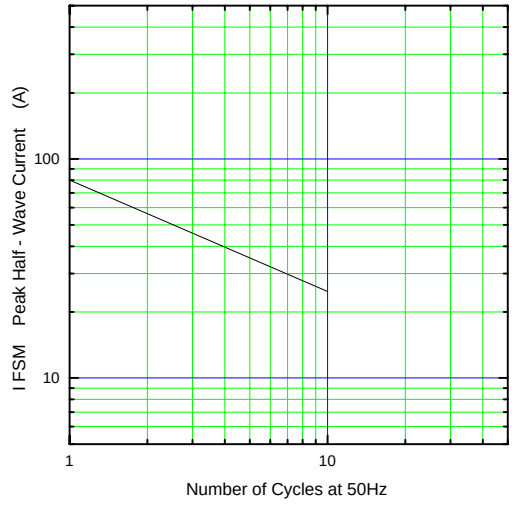


λ:Conduction angle of forward current for each rectifier element
Io:Output current of center-tap full wave connection

Junction Capacitance Characteristi(typ.)



Surge Capability



Transient Thermal Impedance

