

YG123S15 (6A)

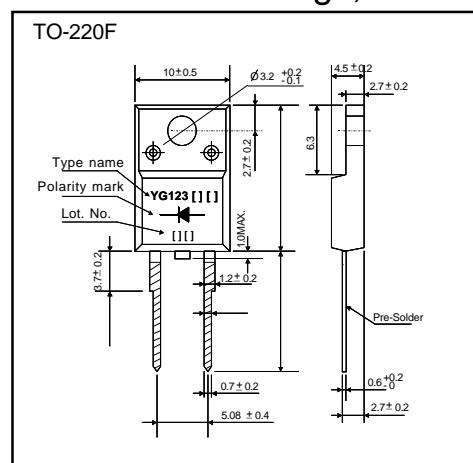
(1500V / 6A)

Fast recovery diode

■ Features

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

■ Outline drawings, mm



■ 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	V _{iso}	Terminals-to-Case, AC.1min	1500	V
Average output current	I _o	Square wave, duty=1/2 T _c =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 (T_c=25°C Unless otherwise specified)

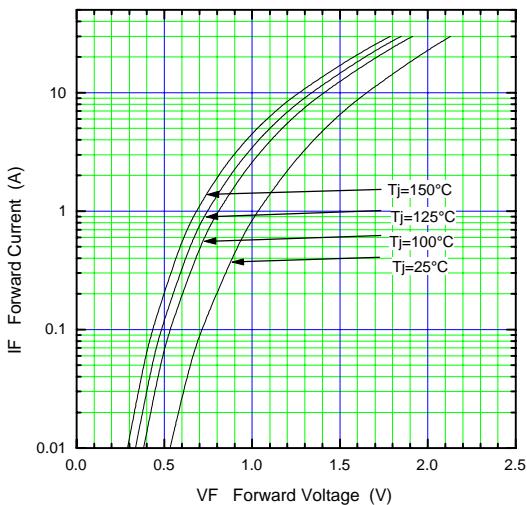
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V _F	I _F =4A	2.0	V
Reverse current	I _R	V _R =V _{RRM}	50.0	μ A
Reverse recovery time	trr	I _F =0.1A, I _R =0.1A	0.5	μ s

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

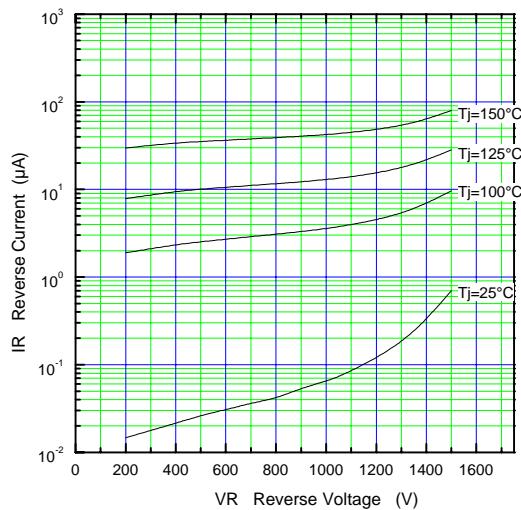
Item	Symbol	Condition	Max.	Unit
Thermal resistance	R _{th(j-c)}	Junction to case	3.5	°C/W

■ Characteristics

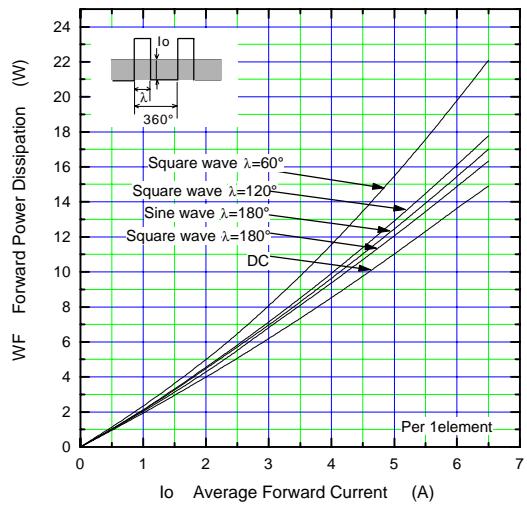
Forward Characteristic (typ.)



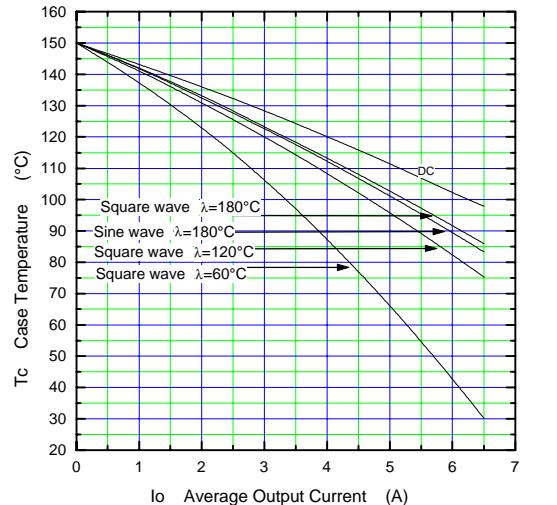
Reverse Characteristic (typ.)



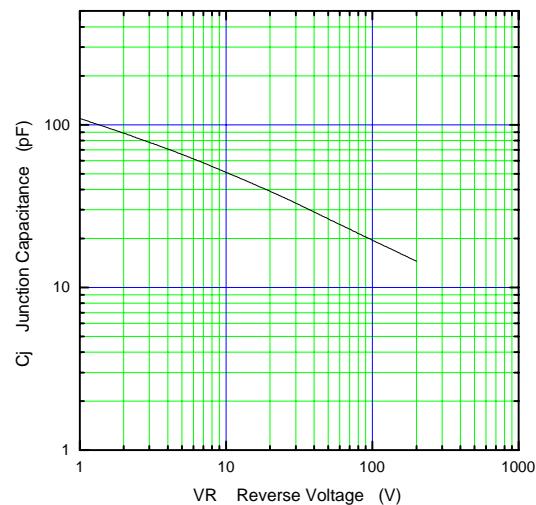
Forward Power Dissipation



Current Derating (Io-Tc)



Junction Capacitance Characteristi(typ.)



Surge Capability

