



Y10

Unit in mm(inch)

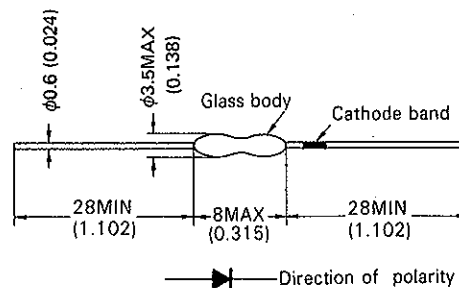
■特 長

- カラーTVの高压整流用
トリプラー方式
ダブラー方式
シングル方式
マルチシングル方式
- 拡散接合形
ガラスモールド構造により不燃性, 耐湿, 耐熱
性良好
- 高温出力特性良好
(高温もれ電流小, 逆回復特性良好)

■ FEATURES

- For color TV receivers.
Tripler circuit.
Doubler circuit.
Single circuit.
Multistage singular flyback transformer.
- Diffused-junction.
- Non-inflammable owing to the glass passivated
and encapsulated construction.
- Excellent high temperature output characteris-
tics.
(Small leakage current at high temperature and
excellent reverse characteristics.)

OUTLINE DRAWING



Type	Color of cathode band
Y10GA	Red
Y10EA	Blue
Weight : 0.3(g)	

■ MAXIMUM ALLOWABLE RATINGS

Items	Type	Y10EA	Y10GA
Repetitive Peak Reverse Voltage*	V_{RRM} kV	4	6
Non-repetitive Peak Reverse Voltage*	V_{RSM} kV	5	7
Average Forward Current	$I_{F(AV)}$ mA	5.0 (15.75KHz C-Load)	
Surge (Non-Repetitive) Forward Current	I_{FSM} A	0.5	
Operating Junction Temperature	T_j °C	-40 ~ +120	
Storage Temperature	T_{stg} °C	-40 ~ +120	

■ CHARACTERISTICS ($T_c=25^\circ\text{C}$ unless otherwise specified)

Items	Symbols	Units	Min.	Typ.	Max.	Test Conditions
Peak Reverse Current*	I_{RRM}	μA	—	—	4.0	$V_R = V_{RRM}$
Peak Forward Voltage	V_{FM}	V	—	—	22	$I_{FM} = 5\text{mA}$
Reverse Recovery Current	I_{rp}	mA	—	—	2.5	

*絶縁油中かエポキシモールド後試験する。

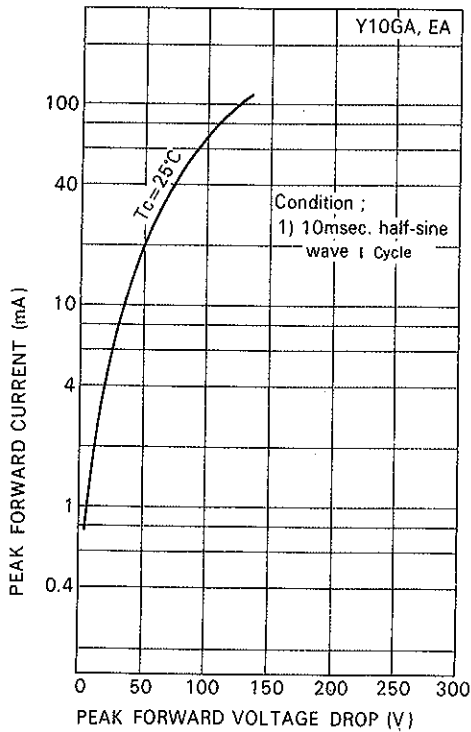
*Diode tested in adequate thermal and dielectric medium.

Y10

B

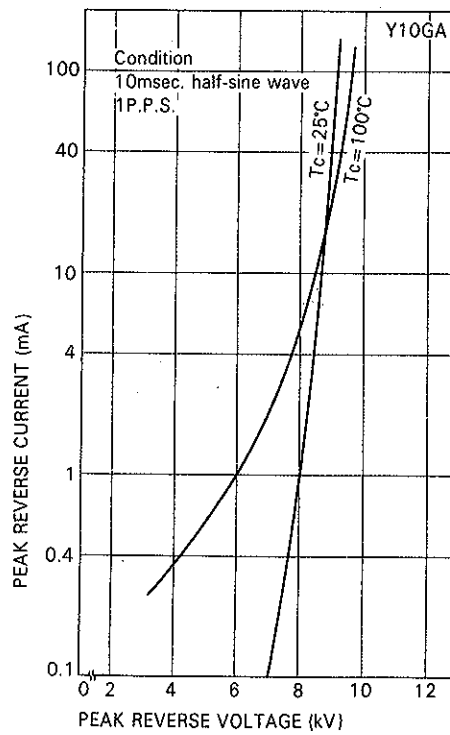
順特性 (代表例)

TYPICAL FORWARD VOLTAGE
CHARACTERISTICS



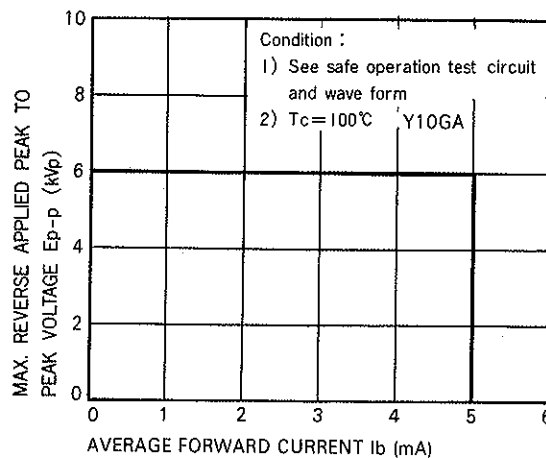
逆特性 (代表例)

TYPICAL REVERSE CURRENT
CHARACTERISTICS

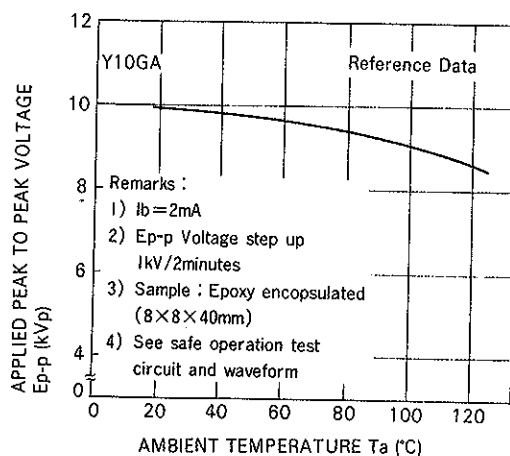


安全動作カーブ

SAFE OPERATING CURVE

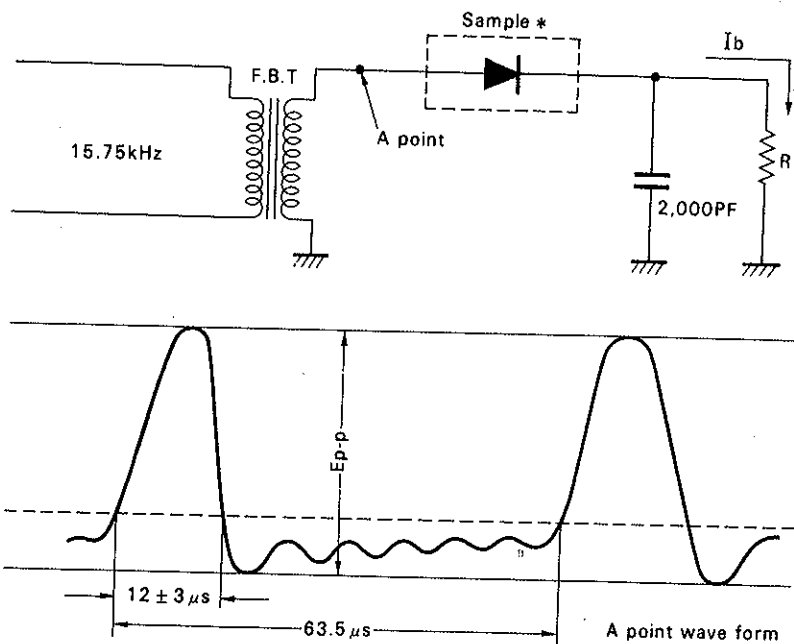


高周波実装 BDV 温度特性 (代表例参考カーブ)
TYPICAL. BDV VARIATION WITH AMBIENT
TEMPERATURE IN HIGH FREQUENCY F.B. PULSE
OPERATION



動作回路及び波形

SAFE OPERATION TEST CIRCUIT AND WAVEFORM

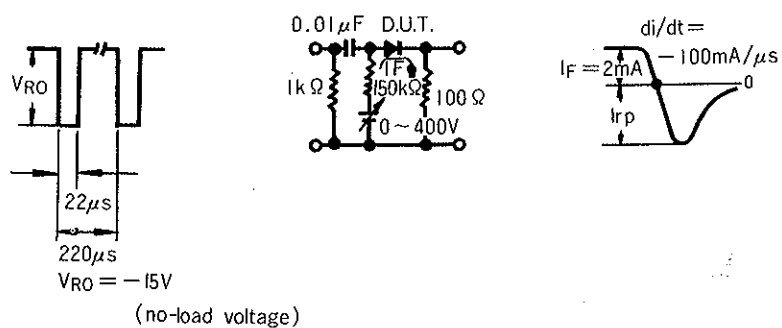


* Sample ; Epoxy encapsulated ($8 \times 8 \times 40$)

Y10

逆回復電流(I_{rp})測定条件

REVERSE RECOVERY CURRENT (I_{rp}) TEST CIRCUIT AND CONDITION



TYPE Y16

10~12kV 3.0mA(AVG)
HIGH VOLTAGE FAST RECOVERY
DIODE

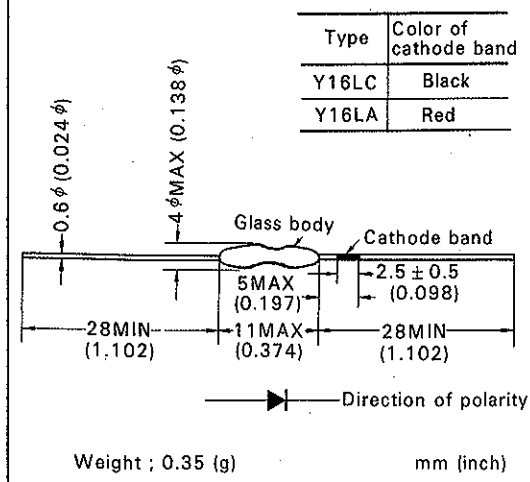
■特 長

- 拡散接合形
- ガラスモールド構造により不燃性, 耐湿, 耐熱性良好
- 高温出力特性良好
(高温 I_{RM} 小, 逆回復特性良好)
- カラーTVの高压整流:
 タブラー方式
 トリプラー方式
 シングル方式

■FEATURES

- Diffused junction.
- Non-inflammable owing to the glass passivated and encapsulated construction.
- Excellent high temperature out put characteristics
(Small I_{RM} at high temperature and excellent reverse characteristics)
- For color TV receivers:
 Tripler circuit.
 Doubler circuit.
 Single circuit.

OUTLINE DRAWING



■ MAXIMUM ALLOWABLE RATINGS

Items	Hitachi Type	Y16LA	Y16LC
Repetitive Peak Reverse Voltage*	V_{RRM} kV	10	12
Non-repetitive Peak Reverse Voltage*	V_{RSM} kV	12	14
Average Forward Current	I_o mA	3.0 (15.75KHz C-Load)	
Surge(Non-Repetitive) Forward Current	I_{FSM} A	0.5	
Operating Junction Temperature	T_j °C	-40~+120	
Storage Temperature	T_{stg} °C	-40~+150	

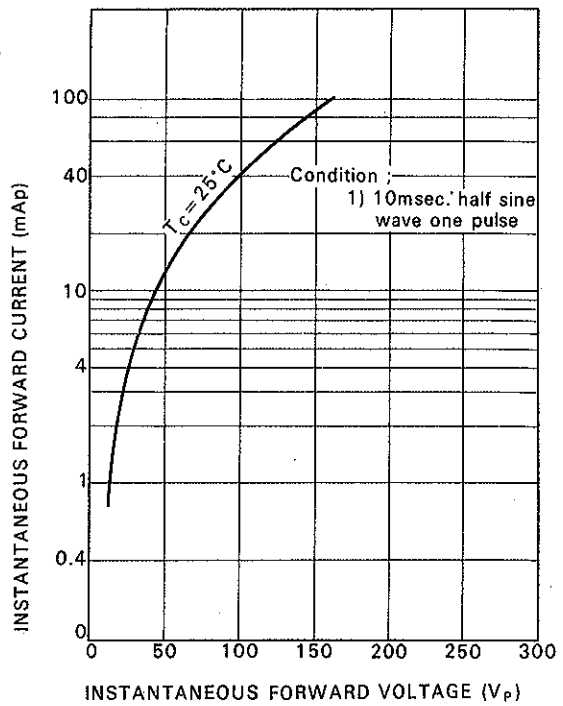
■ CHARACTERISTICS ($T_c=25^\circ\text{C}$ unless otherwise specified)

Items	Symbols	Units	Min.	Typ	Max.	Test Conditions
Peak Reverse Current*	I_{RRM}	μA	—	—	4.0	$V_R = V_{RRM}$
Peak Forward Voltage	V_{FM}	V	—	—	35	$I_{FM} = 5\text{mA}$
Reverse Recovery Current	I_{rp}	mA	—	—	2.5	
Junction Capacitance	C_j	PF	—	0.4	—	$V_R = 100\text{V}_{DC}$, $f = 1\text{MHz}$

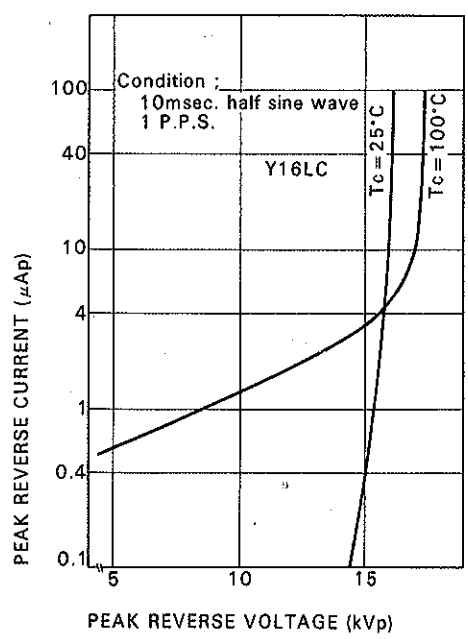
* 絶縁油中か、エポキシモールド後試験する。

* Diode tested in adequate thermal and dielectric medium.

順電圧降下特性 (代表例)
TYPICAL FORWARD VOLTAGE
CHARACTERISTICS



逆特性 (代表例)
TYPICAL REVERSE CURRENT
CHARACTERISTICS

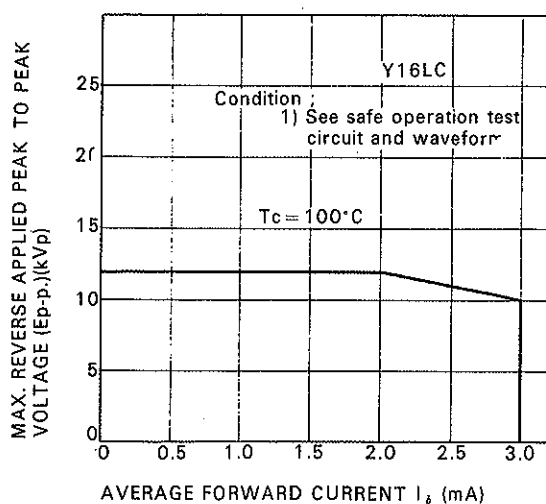


TYPE Y16

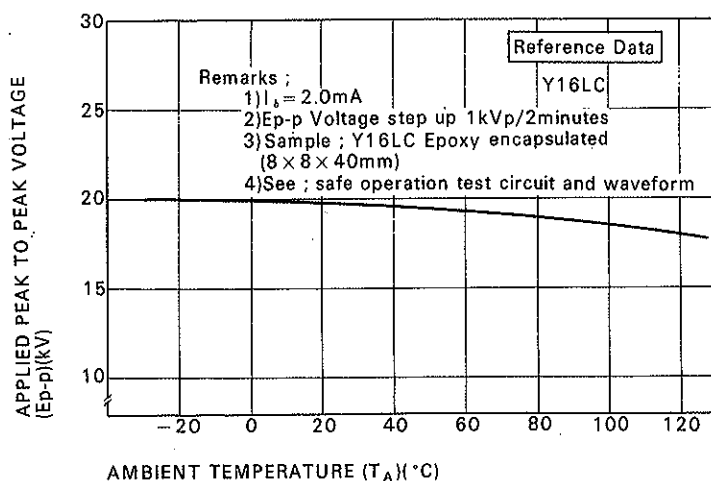
10~12kV 3mA(AVG)
HIGH VOLTAGE FAST RECOVERY
DIODE)

逆回復電
REVER

安全動作カーブ
SAFE OPERATING CURVE

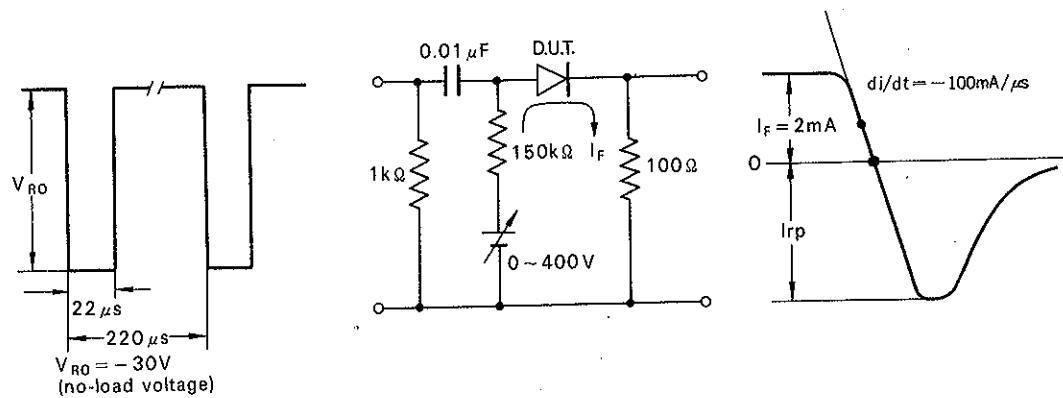


高周波実装BDV温度特性 (代表例参考カーブ)
TYP. BDV VARIATION WITH AMBIENT TEMPERATURE
IN HIGH FREQUENCY F.B. PULSE OPERATION



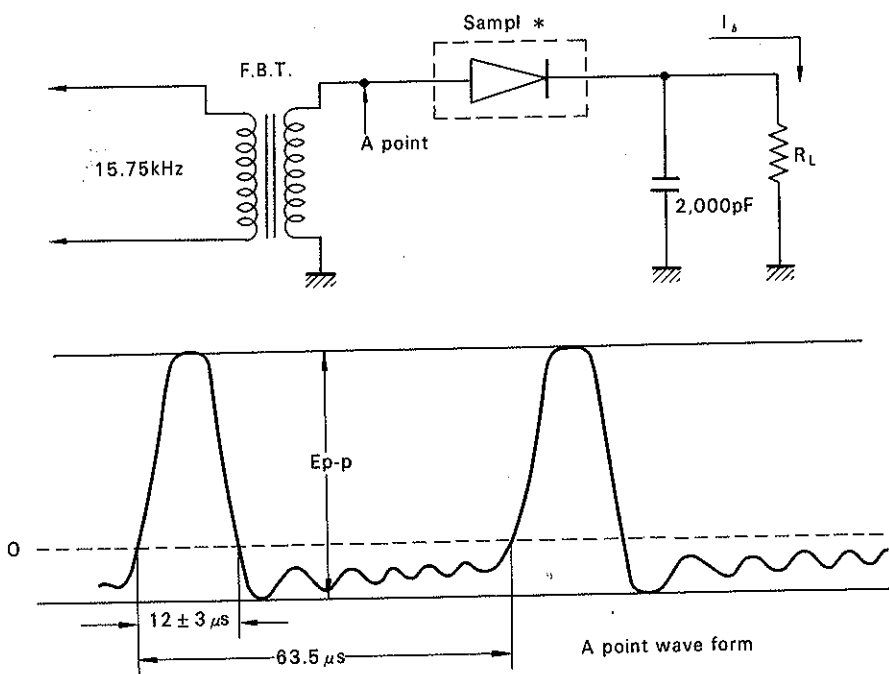
逆回復電流測定条件

REVERSE RECOVERY CURRENT [I_{rp}] TEST CIRCUIT AND CONDITION



動作回路及び波形

SAFE OPERATION TEST CIRCUIT AND WAVEFORM



* Sample ; Epoxy. encapsulated ($8 \times 8 \times 40mm$)