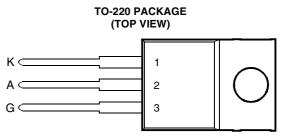
BOURNS

THE FLUORACTOR[®] Y1112 FLUORESCENT LAMPSTARTER SWITCH

- V_(BR) 1200 to 1500 V
- I_H > 175 mA
- I_{GT} < 2 mA

description

This product is intended for use as a T8/T12 fluorescent tube starter switch on 200-240 V a.c. supplies with tube sizes up to 5ft with leading and lagging ballast circuits.



Pin 2 is in electrical contact with the mounting base.

absolute maximum ratings at 25°C case temperature (unless otherwise noted)

RATING	SYMBOL	VALUE	UNIT	
Crest working off-state voltage (Full wave rectified 50 Hz a.c.)	V _{DWM}	375	V	
Peak reverse gate voltage	V _{RGM}	6	V	
On-state current — continuous	Ι _Τ	1.5		
— repetitive peak	I _{TRM}	2	Α	
— non-repetitive peak	I _{TSM}	10		
Peak gate current	I _{GRM}	0.5	Α	
Average gate power	P _{G(av)}	0.3	W	
Operating case temperature range	т _с	-5 to +85	°C	
Storage temperature range	T _{stg}	-10 to +110	°C	
Lead temperature during soldering 1.6 mm from the case for 10 seconds	T _{lead}	230	°C	

electrical characteristics at 25°C case temperature (unless otherwise noted)

	PARAMETER		TEST CONDITIONS	MIN	ТҮР	MAX	UNIT
Ι _D	Off-state current	$V_{D} = V_{DWM}$	$T_j = 65^{\circ}C$			1	mA
V _T	On-state voltage	I _T = 2 A				3.1	V
V _(BR)	Clamping voltage	I _{BR} = 5 mA	t _p < 200 μs, 2% duty cycle	1200		1500	V
Ι _Η	Holding current	See application circuit		175			mA
1.	Peak gate	V _{AA} = 10 V	$R_L = 10 \ \Omega$			2	mA
IGTM	trigger current					2	ША
V _{GTM}	Peak gate	V _{AA} = 10 V	R ₁ = 10 Ω			3	v
	trigger voltage		$n_{L} = 10.32$			3	v

thermal characteristics

PARAMETER		MIN	ТҮР	MAX	UNIT
R_{\thetaJA}	Junction to free air thermal resistance			62.5	°C/W
$R_{\theta JC}$	Junction to case thermal resistance			3.5	°C/W

PRODUCT INFORMATION

applications data

The conventional method of starting fluorescent tubes employs the use of an electromechanical canister. This consists of a bimetallic strip which opens as it cools and in conjunction with the ballast inductor, provides the tube striking voltage. However, the random nature of the pulsing results in repeated striking attempts and degradation of both the tube and starter. The tube degradation is illustrated by its progressively blackening ends and ultimately required tube replacement.

The Y1112, "Fluoractor[®]", has been specifically introduced for use in electronic starters. This unique device offers the lighting industry an opportunity to develop electronic starters small enough to be retrofit replacements for the established electromechanical canisters. Its double thyristor structure with integrated zener clamp diode and current mirror provides the technology for a starter with enhanced features such as controlled flicker free start up, automatic tube shutdown at end of tube life and reduced degradation of tube ends leading to extended life. The increased functionality, lifetime and reliability of these starters has led in some cases to them being embodied in the ballast itself, a development not feasible with the old electromechanical canisters.

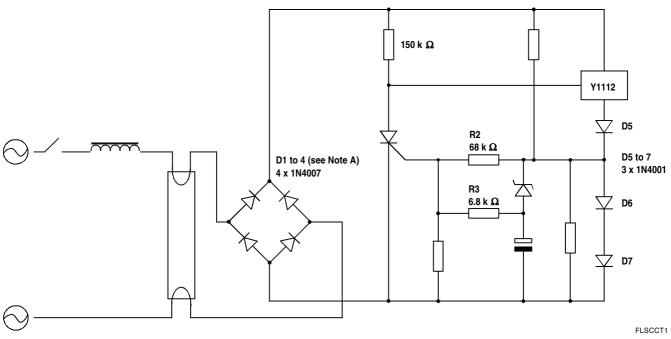


Figure 1. Two terminal starter circuit

NOTE 1: These rectifiers need to be voltage selected for $V_R \ge V_{(BR)max} + 150 V$



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