

TVR30

HIGH VOLTAGE FAST RECOVERY SILICON DIODE FOR CRT APPLICATIONS TYPE - TVR30



This high voltage fast recovery diode was developed for assembly or encapsulation and is intended primarily for use as a building block in the assembly of high voltage circuits for black / white TV and similar service.

ABSOLUTE MAXIMUM RATINGS

W	Peak Reverse Voltage - Repetitive	VRWM max.	30,000 Volts
*	Average Forward Current	IF(AV)max.	10 mA
*	Peak Forward Current - Repetitive	IFRM max.	200 mA
**	Operating Temperature	TA	+100 °C
	Storage Temperature Range	T _{STG}	-55°C to +150 °C

^{*}Pulse rectifier service -TV deflection system, duty cycle approximately 15% of one horizontal cycle. Approximately 10 µsec at a repetition rate of 15,750 Hz **See Figure 2 (over)

ELECTRICAL CHARACTERISTICS (@ T_A=25 °C, Unless Otherwise indicated.)

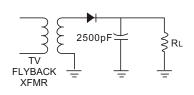
	Forward Voltage VF@IF=5 mA	45V max.
*	Reverse Current IR @ V _R = 30KV	1uA max.
*	Reverse Current @ T _A = 100 °C, I _R @ V _R = 30KV	10uA max.
	Reverse Recovery time (Fig.3) trr	100 nanosec max.
DDI	Max. Surge Current	3A

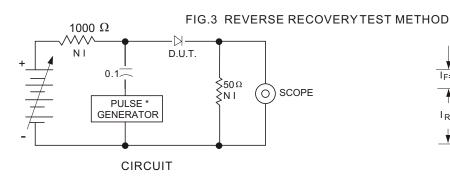
* Tested in suitable dielectric medium

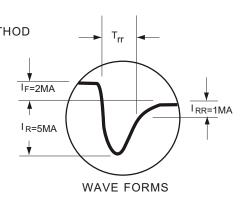
FIG.1 TYPICAL APPLIED VOLTAGE

AC AXIS VOVERSHOOT VRM=DC OUT + OVERSHOOT

FIG.2 TYPICAL OPERATING CIRCUIT

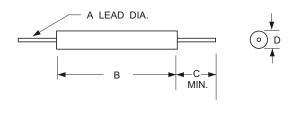






*PULSE GENERATOR HP 214 A OR EQUIV. PULSE WIDTH 1 \(\mu S \) REP.RATE 10 HKZ

FIG.4 MECHANICAL OUTLINE



	INCHES	MM
Α	.020	0.51
В	1.5	38.1
С	0.5	12.7
D	.235	5.97

Notes:

1.molding material rated UL94V-0

2.max.lead temperature for soldering, 1/8" from body, 10 seconds @ 260°C

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