

## HIGH VOLTAGE FAST RECOVERY SILICON DIODE FOR CRT APPLICATIONS TYPE - TVR20



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

	Peak Reverse Voltage - Repetitive	VRWM max.	20,000 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 <sub>STG</sub>	-55°C to +150 °C

<sup>\*</sup> 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

## ELECTRICAL CHARACTERISTICS (@ T<sub>A</sub>=25 °C, Unless Otherwise indicated.)

	Forward Voltage V <sub>F</sub> @ I <sub>F</sub> = 5mA	30V max.
*	Reverse Current IR @ V <sub>R</sub> =20KV	1uA max.
*	Reverse Current @ T <sub>A</sub> =100 °C, I <sub>R</sub> @ V <sub>R</sub> =20KV	10uA max.
	Reverse Recovery time (Fig.3) t <sub>rr</sub>	100 nanosec max.
	Max. Surge Current	3A

<sup>\*</sup> Tested in suitable dielectric medium

EDI reserves the right to change these specifications at any time without notice.

<sup>\*\*</sup> See Figure 2 (over)

FIG.1 TYPICAL APPLIED VOLTAGE

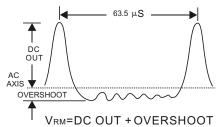


FIG.2 TYPICAL OPERATING CIRCUIT

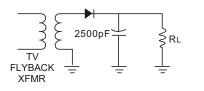
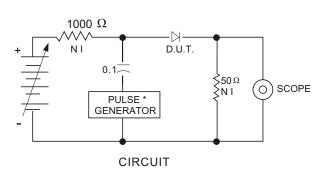
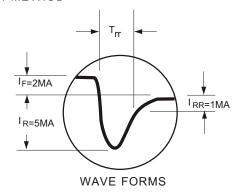


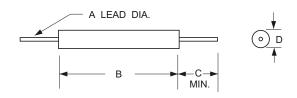
FIG.3 REVERSE RECOVERYTEST METHOD





\*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	0.235	5.97

## Notes:

1.molding material rated UL94V-0

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

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