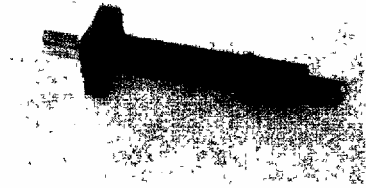


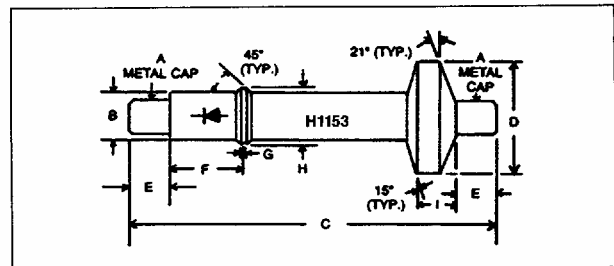
High Voltage Diode H1153

Designed for High Temperature Operation
Low RFI/EMI



LTR.	INCHES	MILLIMETERS
A	.360 Dia.	9,14 Dia.
B	.50 Dia.	12,70 Dia.
C	3.7	94
D	1.18 Dia.	29,97 Dia.
E	.4	10,2
F	.750	19,05
G	.050	1,27
H	.60 Dia.	15,24
I	.40	10,16

Dimensional Tolerances .X \pm .1, .XX \pm .02, .XXX \pm .005 inch.



MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATING	SYMBOL		UNITS
Repetitive Peak Reverse Voltage See Fig. 1 & 2	V_{RRM}	45	KV
Average Forward Current (Fig. 1)	$I_{F(AV)}$	2.2	mA
Peak Surge Current, $\frac{1}{2}$ Cycle at 60Hz, (Non-Rep)	I_{FSM}	200	mA
Maximum Ambient Operating Temperature	T_A	90	$^\circ\text{C}$
These maximum ratings cannot necessarily be used simultaneously; see Fig. 1—Safe Operating Areas.			

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL		UNITS
Maximum Reverse Current at $V_R = 45\text{kV}$	I_R	1	μA
Maximum Forward Voltage Drop at $I_F = 5\text{mA}$	V_{FM}	180	V
Max. Anode to Cathode Capacitance at $V_R = 400\text{V}$, $F = 100\text{kHz}$	C_J	0.75	pF
Max. Reverse Recovery Time, $I_F = 2\text{mA}$, $I_R = -4\text{mA}$ and $I_{RR} = -1\text{mA}$ (Fig. 3)	t_r	175	nsec

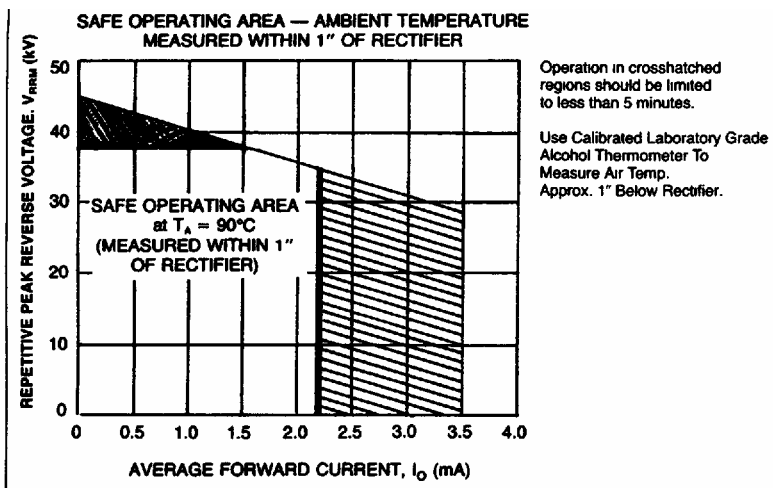


FIGURE 1

T-03-15

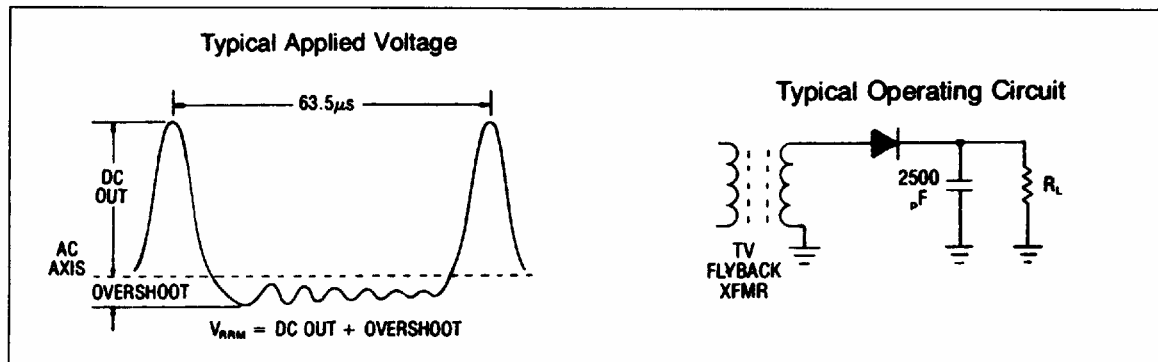


FIGURE 2

