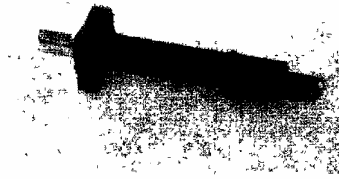


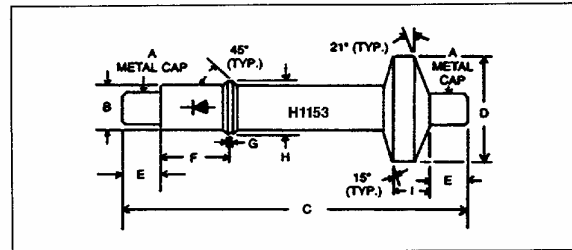
**High Voltage Diode H1153**

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 ± .1, .XX ± .02, .XXX ± .005 inch.

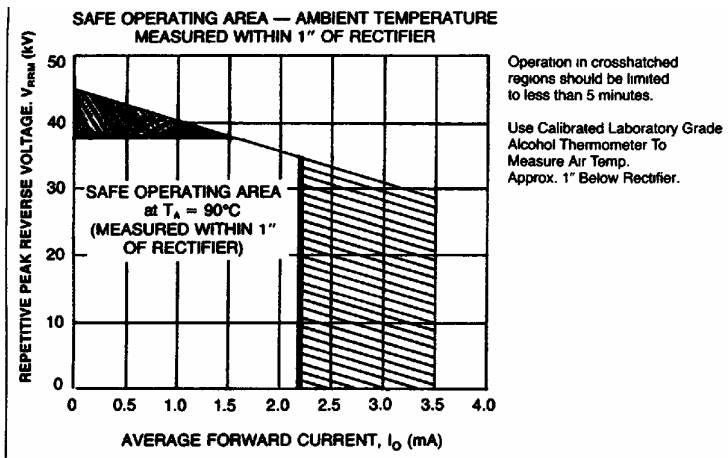


**MAXIMUM RATINGS** (At  $T_A = 25^\circ\text{C}$  unless otherwise noted)

RATING	SYMBOL	VALUE	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, 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	VALUE	UNITS
Maximum Reverse Current at $V_R = 45\text{kV}$	$I_R$	1	$\mu\text{A}$
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



T-03-15

