

HV37 is high reliability resin molded type high voltage diode in small size package which is sealed a multilayered mesa type silicon chip by epoxy resin.

Features

- High speed switching
- Low VF
- High surge resistivity for CRT discharge
- High reliability design
- Ultra small package

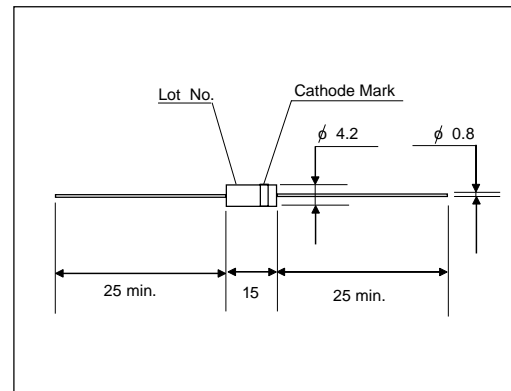
Applications

- X light Power supply
- Laser
- Voltage doubler circuit
- Microwave emission power

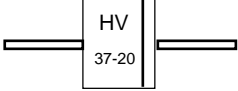
Maximum Ratings and Characteristics

- Absolute Maximum Ratings

Outline Drawings : mm



Cathode Mark

Type	Mark
HV37-20	

Items	Symbols	Condition	HV37-20	Units
Repetitive Peak Reverse Voltage	V_{RRM}		20	kV
Average Output Current	I_o	$T_a=25^{\circ}C$, Resistive Load	200	mA
Surge Current	I_{FSM}		15	A_{peak}
Junction Temperature	T_j		155	$^{\circ}C$
Allowable Operation Case Temperature	T_c		125	$^{\circ}C$
Storage Temperature	T_{stg}		-40 to +155	$^{\circ}C$

- Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Items	Symbols	Conditions	HV37-20	Units
Maximum Forward Voltage Drop	V_F	at $25^{\circ}C$, $I_F=I_{F(AV)}$	35	V
Maximum Reverse Current	I_{R1}	at $25^{\circ}C$, $V_R=V_{RRM}$	5.0	μA
	I_{R2}	at $100^{\circ}C$, $V_R=V_{RRM}$	50	μA
Maximum Reverse Recovery Time	T_{rr}	at $25^{\circ}C$	100	nS
Junction Capacitance	C_j	at $25^{\circ}C$, $V_R=0V$, $f=1MHz$	15	pF