



SHV-20

HIGH VOLTAGE RECTIFIER DIODES

VOLTAGE RANGE: 20 KV
CURRENT: 5.0 mA

Features

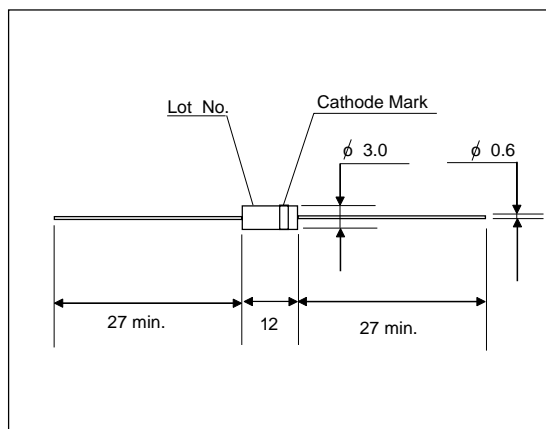
- High speed switching
- High Current
- High surge resistivity for CRT discharge
- High reliability design
- High Voltage

Applications

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



Outline Drawings : mm



Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbols	SHV-20	Units
Repetitive Peak Reverse Voltage	V_{RRM}	20	kV
Average Output Current $T_a=25^\circ\text{C}$, Resistive Load	I_o	5.0	mA
Surge Current	I_{FSM}	0.5	A
Maximum Forward Voltage Drop at 25°C , $I_F = I_{F(AV)}$	V_F	45	V
Maximum Reverse Current at 25°C at 100°C	V_{RRM}	2.0 5.0	μA
Maximum Reverse Recovery Time at 25°C	T_{rr}	100	nS
Junction Capacitance at 25°C , $V_R=0\text{V}$, $f=1\text{MHz}$	C_j	1.0	pF
Junction Temperature	T_j	120	$^\circ\text{C}$
Allowable Operation Case Temperature	T_c	120	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +120	$^\circ\text{C}$