# **SHV-12**

# 12kV 5mA HIGH VOLTAGE DIODES

The SHV series of diodes have been miniaturized by resin on the assumption fo remolding. Measures against creeping discharge and humidity stress must be taken when using these diodes.

### Features

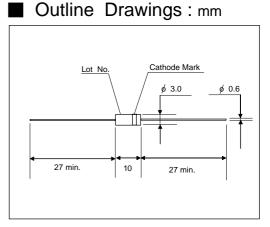
- High speed switching
- High Current
- High surge resisitivity for CRT discharge
- High reliability design
- High Voltage

#### Applications

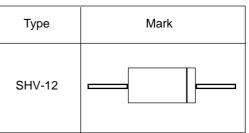
- X light Power supply
- Laser
- Voltage doubler circuit
- Microwave emission power

# Maximum Ratings and Characteristics

Absolute Maximum Ratings



## Cathode Mark



Items	Symbols	Condition	SHV-12	Units
Repetitive Peak Renerse Voltage	Vrrm		12	kV
Average Output Current	lo	Ta=25°C,Resistive Load	5.0	mA
Suege Current	IFSM		0.5	A peak
Junction Temperature	Tì		120	°C
Allowable Operation Case Temperature	Тс		120	°C
Storage Temperature	Tstg		-40 to +120	°C

#### • Electrical Characteristics (Ta=25°C Unless otherwise specified)

Items	Symbols	Conditions	SHV-12	Units
Maximum Forward Voltage Drop	VF	at 25°C,IF =IF(AV)	35	V
Maximum Reverse Current	IR1	at 25°C,V <sub>R</sub> =V <sub>RRM</sub>	2.0	uA
	IR2	at 100°C,VR =VRRM	5.0	uA
Maximum Reverse Recovery Time	Trr	at 25°C	100	nS
Junction Capacitance	Cj	at 25°C,VR=0V,f=1MHz	1.0	pF



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