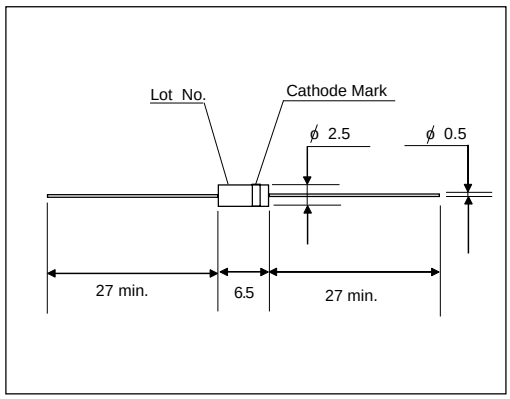
HVCA™

SHV-06

6kV 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.

■ Outline Drawings : mm



■ 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

■ Cathode Mark

Type	Mark
SHV-06	

■ Maximum Ratings and Characteristics

● Absolute Maximum Ratings

Items	Symbols	Condition	SHV-06	Units
Repetitive Peak Renerse Voltage	V_{RRM}		6.0	kV
Average Output Current	I_O	Ta=25°C,Resistive Load	5.0	mA
Suege Current	I_{FSM}		0.5	A_{peak}
Junction Temperature	Tj		120	°C
Allowable Operation Case Temperature	Tc		120	°C
Storage Temperature	T_{stg}		-40 to +120	°C

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

Items	Symbols	Conditions	SHV-06	Units
Maximum Forward Voltage Drop	V_F	at 25°C,I_F =$I_{F(AV)}$	20	V
Maximum Reverse Current	IR1	at 25°C,V_R =V_{RRM}	2.0	uA
	IR2	at 100°C,V_R =V_{RRM}	5.0	uA
Maximum Reverse Recovery Time	Trr	at 25°C	100	nS
Junction Capacitance	Cj	at 25°C,V_R=0V,f=1MHz	1.0	pF

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