### **FAST RECOVERY HIGH VOLTAGE DIODES**

#### **Features**

- · Supersmall size
- · High reliability
- · High speed switching

# Ø0.6±0.03 26min Cathode Mark 10±0.2 26min Dimensions in mm

### **Applications**

- · Rectification for high voltage power supply of color T.V.
- · Rectification for high voltage power supply of **CRT** display
- Others

Туре	Cathode Mark		
HV10	•••		
HV12	***		
HV14	•••		

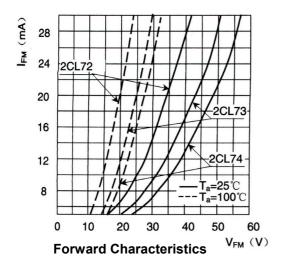
## **Absolute Maximum Ratings and Characteristics** ( $T_a$ = 25 $^{\circ}$ C unless otherwise specified.)

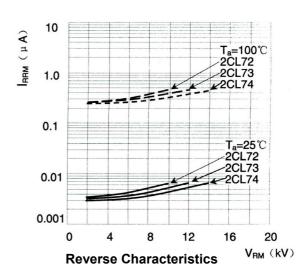
Parameter	Symbols	HV10	HV12	HV14	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	10	12	14	KV
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	12	15	17	KV
Average Forward Current (50 Hz Half-sine Wave, Resistance load, T <sub>a</sub> = 25 °C)	I <sub>F(AV)</sub>	5			mA
Surge(Non-repetitive) Forward Current (50 Hz Half-sine Wave, 1 cycle, T <sub>a</sub> = 25 °C)	I <sub>FSM</sub>	0.5			Α
Peak Forward Voltage at I <sub>F</sub> = 10 mA	V <sub>F</sub>	36	45	51	V
Peak Reverse Current at $V_{RM} = V_{RRM}$ $T_a = 25 ^{\circ}\text{C}$ $T_a = 100 ^{\circ}\text{C}$	I <sub>R</sub>	2 5			μА
Reverse Recovery Time at $I_F = 2$ mA, $I_{RM} = 4$ mA	t <sub>rr</sub>	0.08			μS
Operating Ambient Temperature	Ta	-40 ~ +100			°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +120			°C
Virtual Junction Temperature	T <sub>(vj)</sub>	120			°C

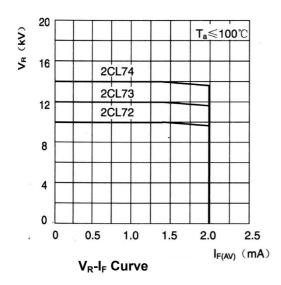


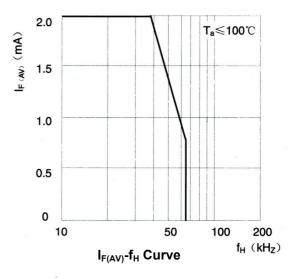


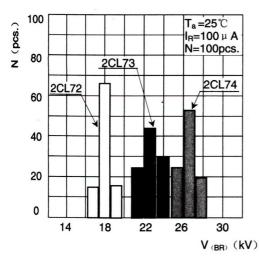


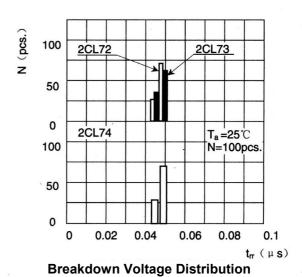
























ISO/TS 16949 : 2002 ISO 14001:2004 ISO 9001:2000 Certificate No. 05103 Certificate No. 7116 Certificate No. 0506098

Dated : 12/01/2006