

HV10, HV12, HV14

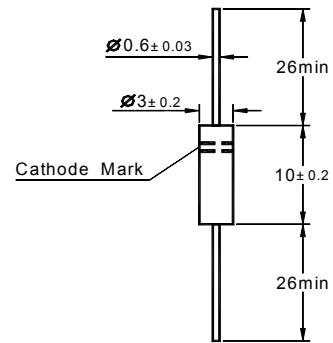
FAST RECOVERY HIGH VOLTAGE DIODES

Features

- Supersmall size
- High reliability
- High speed switching

Applications

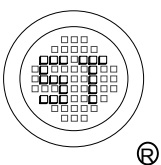
- Rectification for high voltage power supply of color T.V.
- Rectification for high voltage power supply of CRT display
- Others



Type	Cathode Mark
HV10	◆◆◆
HV12	◆◆◆
HV14	◆◆◆

Absolute Maximum Ratings and Characteristics ($T_a = 25\text{ }^\circ\text{C}$ 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, $T_a = 25\text{ }^\circ\text{C}$)	$I_{F(AV)}$	5			mA
Surge(Non-repetitive) Forward Current (50 Hz Half-sine Wave, 1 cycle, $T_a = 25\text{ }^\circ\text{C}$)	I_{FSM}	0.5			A
Peak Forward Voltage at $I_F = 10\text{ mA}$	V_F	36	45	51	V
Peak Reverse Current at $V_{RM} = V_{RRM}$ $T_a = 25\text{ }^\circ\text{C}$ $T_a = 100\text{ }^\circ\text{C}$	I_R	2 5			μA
Reverse Recovery Time at $I_F = 2\text{ mA}$, $I_{RM} = 4\text{ mA}$	t_{rr}	0.08			μS
Operating Ambient Temperature	T_a	-40 ~ +100			$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 ~ +120			$^\circ\text{C}$
Virtual Junction Temperature	$T_{(vj)}$	120			$^\circ\text{C}$

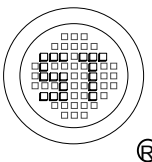
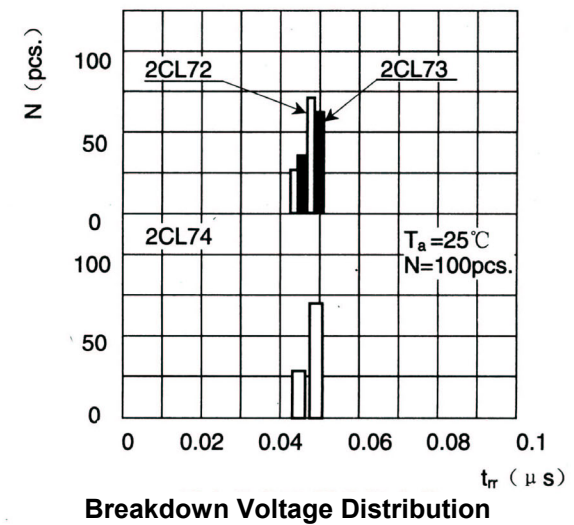
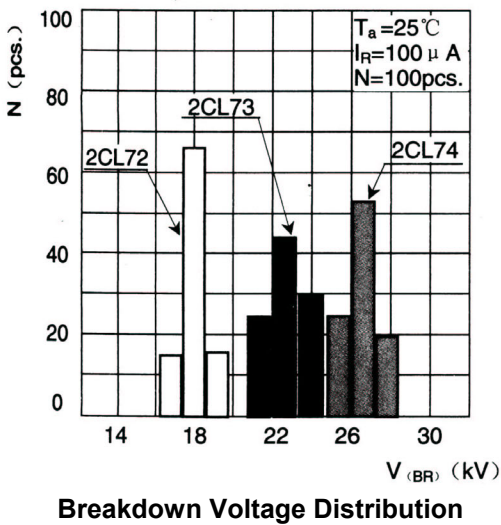
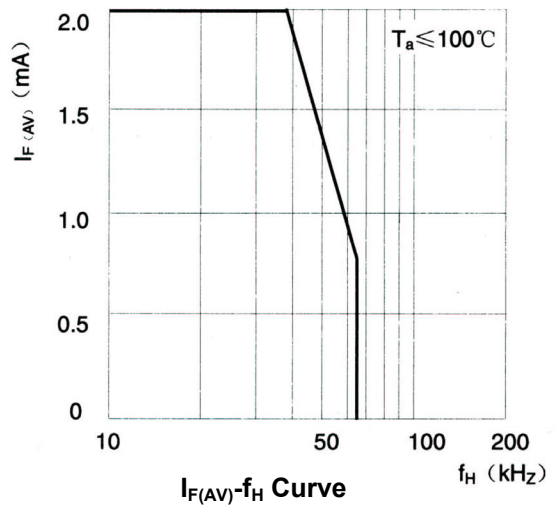
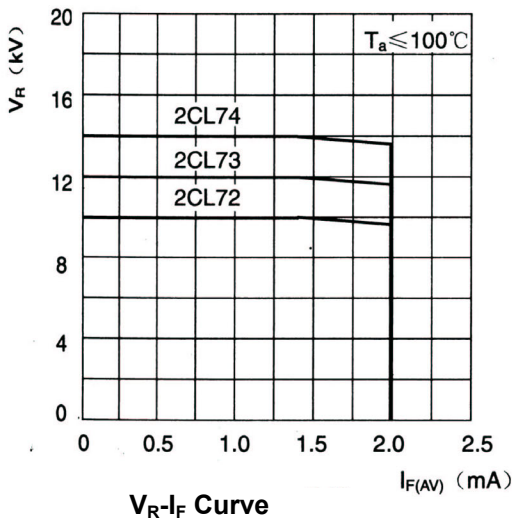
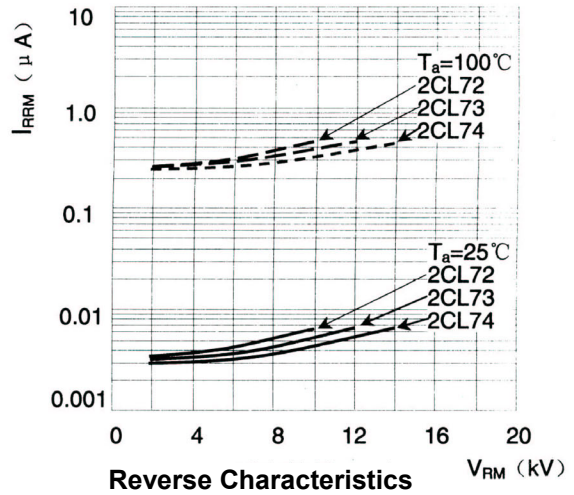
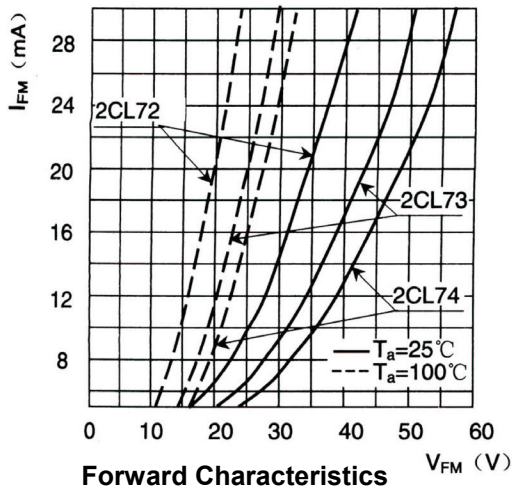


SEMTECH ELECTRONICS LTD.
 (Subsidiary of Semtech International Holdings Limited, a company
 listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 12/01/2006

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