

Fast recovery high voltage diodes

Reverse Voltage –16KV

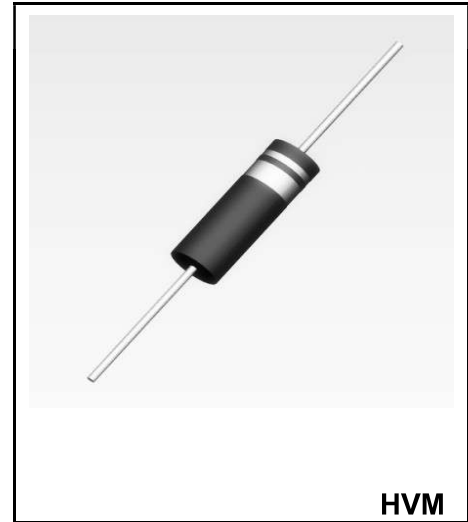
Forward Current –350mA

FEATURES

- ◆Supersmall size
- ◆High reliability
- ◆High speed switching
- ◆Epoxy meets UL94V-0 flammability rating

MECHANICAL DATA

- ◆Case: Molded Plastic Body
- ◆Terminals: Pure tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for consumer grade, meet JESD201 class 1A whisker test.



HVM

Parameter		Symbols	HVM16	Units
Repetitive peak reverse voltage		V_{RRM}	16	KV
Average forward current	60Hz half-sine wave, Resistance load, $T_a \leq 25^\circ\text{C}$	$I_{F(AV)}$	350	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1 cycle, $T_a = 25^\circ\text{C}$	I_{FSM}	30	A
Reverse surge current	$W_p = 1\text{ms}$, Rectangular-wave, One-shot, $T_a = 25^\circ\text{C}$	I_{RSM}	100	mA
Peak forward voltage	$I_{FM} = 350\text{mA}$	V_{FM}	≤ 12	V
Peak reverse current	$V_{RM} = V_{RRM}$	I_{RRM}	≤ 5	μA
Avalanche breakdown voltage	$I_R = 100\mu\text{A}$	$V_{(BR)}$	≥ 12.5	KV
Virtual junction temperature		$T_{(vj)}$	130	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	-40 ~ +130	$^\circ\text{C}$

Typical characteristics

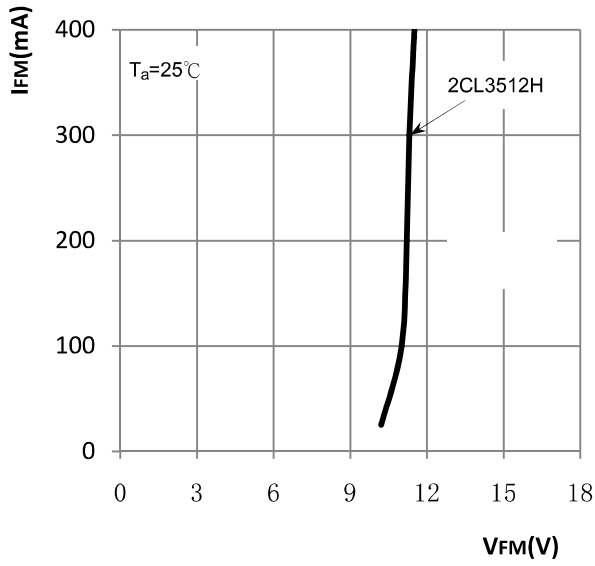


Figure 1. Forward characteristics

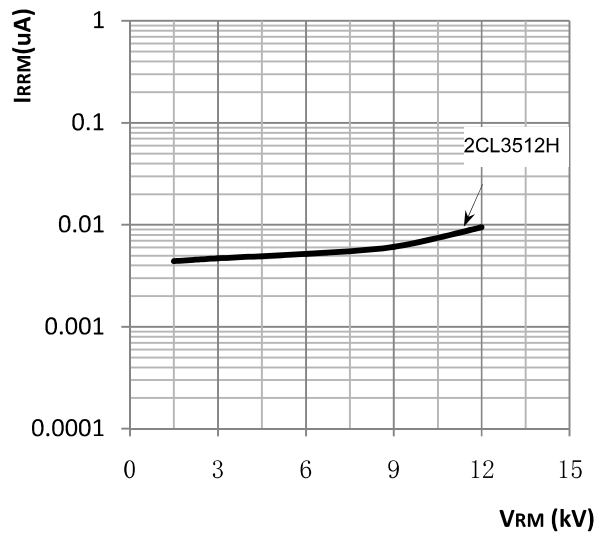


Figure 2. Reverse characteristics

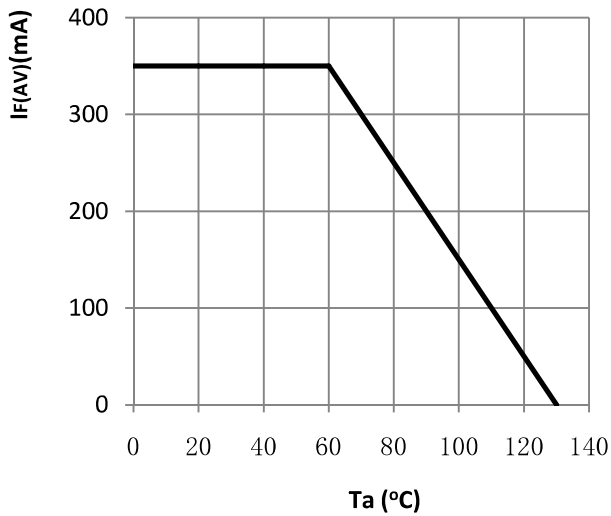
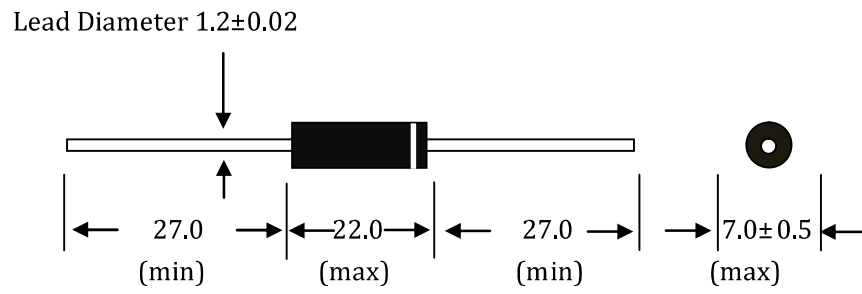


Figure 3. $I_{F(AV)}$ - T_a Derating

Package Outline HVM



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
HVM	BOX	500	EIA-481-1