

Fast Recovery High Voltage Diodes

Reverse Voltage –16KV

Forward Current –10mA

FEATURES

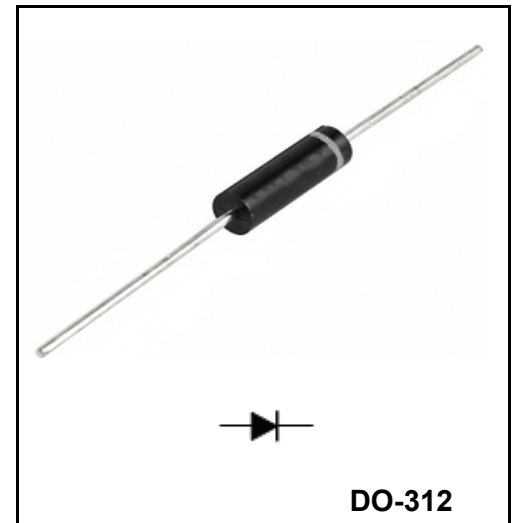
- ♦Supersmall size
- ♦High reliability
- ♦High speed switching

Applications

Rectification for high voltage power supply of color T.V、CRT display、V.T.R camera and Others

MECHANICAL DATA

- ♦Case: DO-312
- ♦Epoxy meets UL 94V-0 flammability rating
- ♦Terminals: Pure tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for consumer grade, meet JESD201 class 1A whisker test.
- ♦Polarity: Color band denotes cathode end



Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Symbols	2CL75	Units
Repetitive peak reverse voltage		V_{RRM}	16	KV
Non-Repetitive peak reverse voltage		V_{RMS}	20	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	$I_{F(AV)}$	10	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, Ta=25°C	I_{FSM}	0.5	A
Peak forward voltage	$I_{FM}=10mA$	V_{FM}	45	V
Peak reverse current $V_{RM}=V_{RRM}$	Ta=25°C	I_{RRM}	2	μA
	Ta=100°C		5	
Reverse recovery time	$I_F=2mA, I_{RM}=4mA$	t_{rr}	0.08	μs
Operating ambient temperature		Ta	-40 ~ +100	°C
Storage Temperature Range		Tstg	-40 ~ +120	°C
Virtual junction temperature		T(vj)	120	°C

Typical characteristics

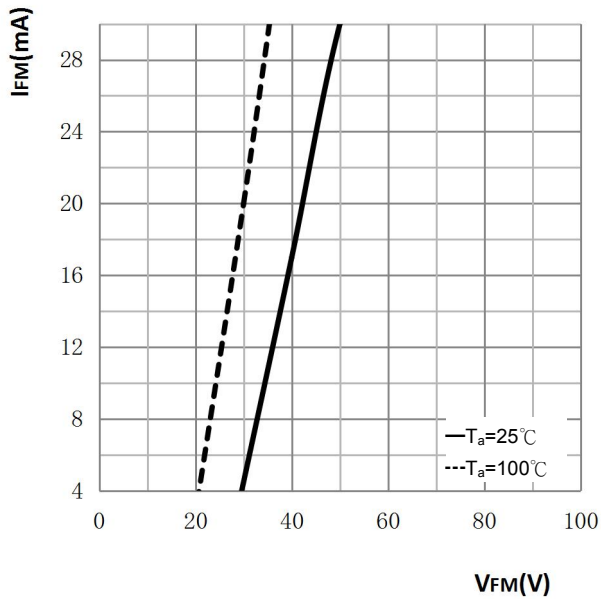


Figure 1. Forward characteristics

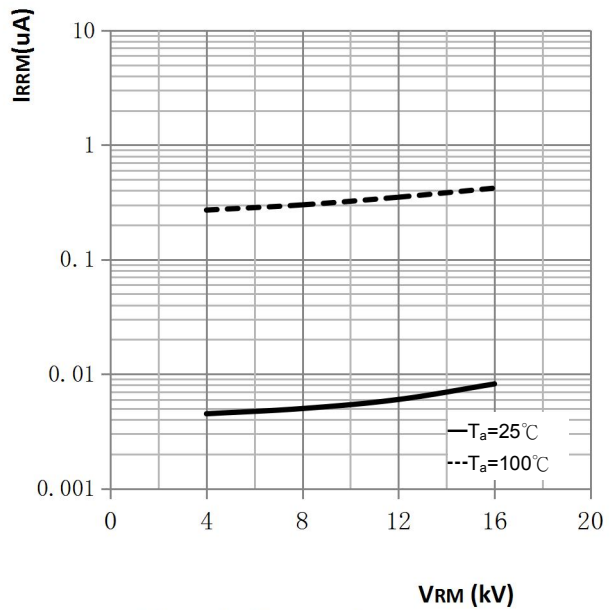


Figure 2. Reverse characteristics

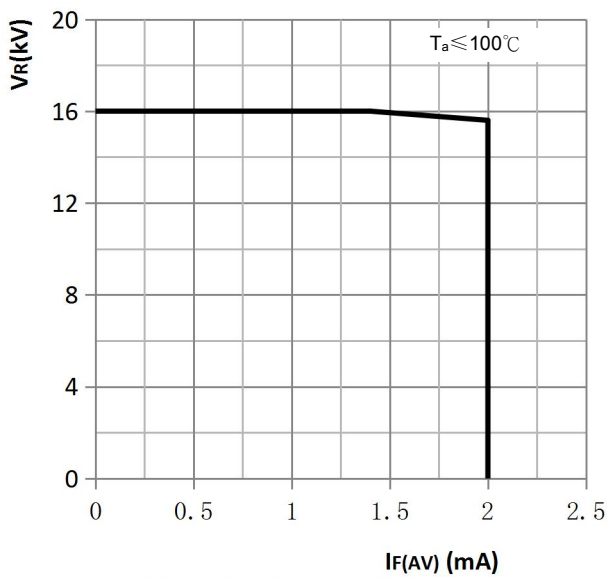


Figure 3. V_R - $I_F(AV)$ Curve

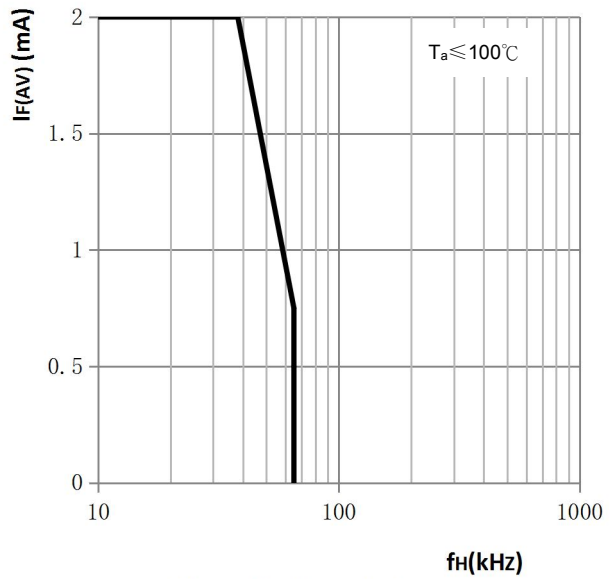


Figure 4. $I_F(AV)$ - f_H Curve

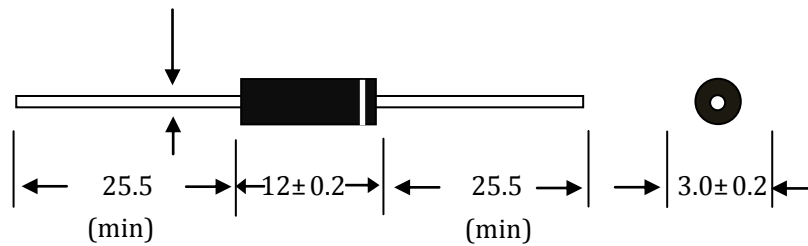
Ordering information

Package	Packing Description	Packing Quantity
DO-312	ammo pack	5000PCS/Inner Box 50000PCS/Carton

Package Dimensions(Millimeter(mm))

DO-312

Lead Diameter 0.6 ± 0.03



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