

Fast recovery high voltage diodes

Reverse Voltage – 8KV

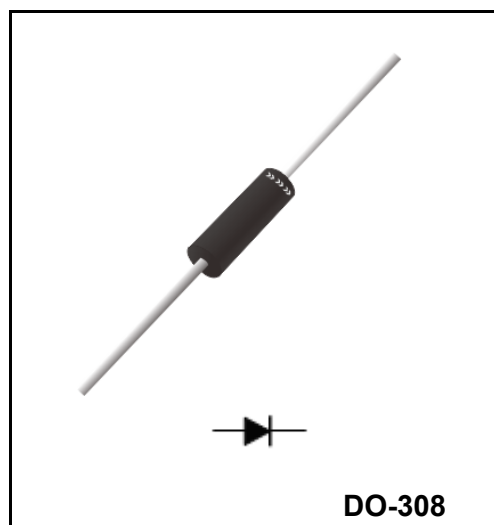
Forward Current – 10mA

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 JEDEC22-B102, E3 suffix for consumer grade, meet JEDEC201 class 1A whisker test.



Marking Code

2CL71T

YFW T71

Parameter		Symbols	2CL71T	Units
Repetitive peak reverse voltage		V_{RRM}	8	KV
Non-Repetitive peak reverse voltage		V_{RMS}	10	KV
Average forward current	60Hz half-sine wave, Resistance load, $T_a=25^{\circ}\text{C}$	$I_{F(AV)}$	10	mA
Surge(Non-repetitive) forward current	60Hz half-sine wave, 1 cycle, $T_a=25^{\circ}\text{C}$	I_{FSM}	0.5	A
Peak forward voltage	$I_{FM}=10\text{mA}$	V_{FM}	36	V
Peak reverse current $V_{RM}=V_{RRM}$	$T_a=25^{\circ}\text{C}$	I_{RRM}	2 5	μA
	$T_a=100^{\circ}\text{C}$			
Reverse recovery time	$I_F=2\text{mA}, I_{RM}=4\text{mA}$	T_{rr}	0.08	μS
Operating ambient temperature		T_a	-40~+125	$^{\circ}\text{C}$
Storage Temperature Range		T_{stg}	-40~+150	$^{\circ}\text{C}$
Virtual junction temperature		$T_{(vj)}$	125	$^{\circ}\text{C}$

Typical characteristics

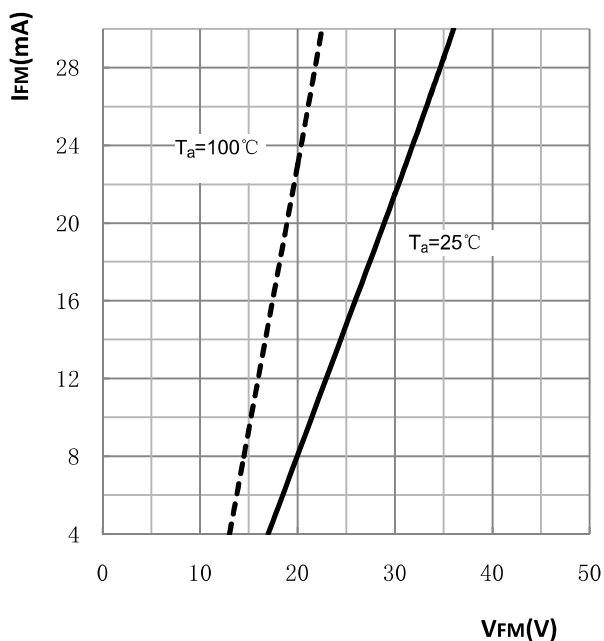


Figure 1. Forward characteristics

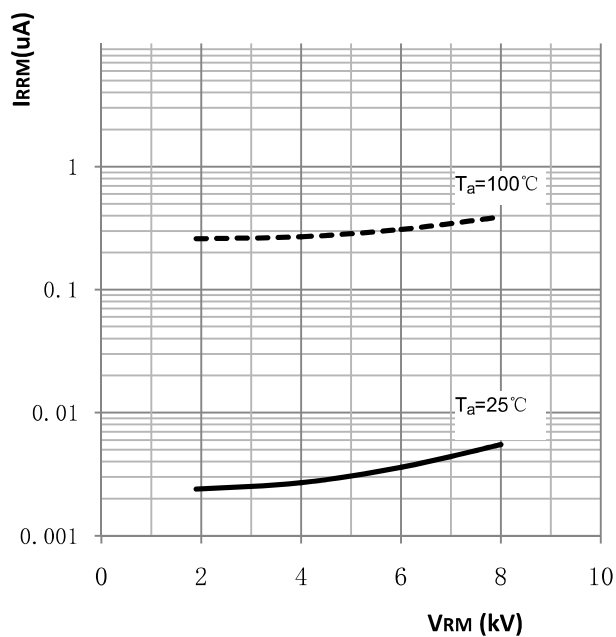


Figure 2. Reverse characteristics

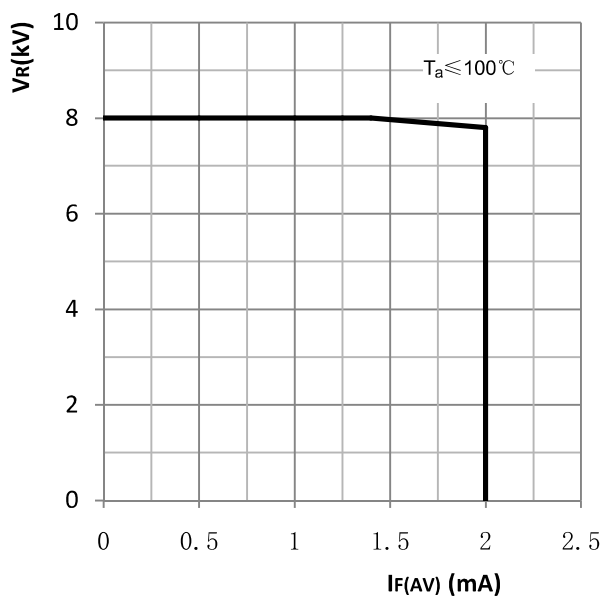


Figure 3. V_R - $I_F(AV)$ Curve

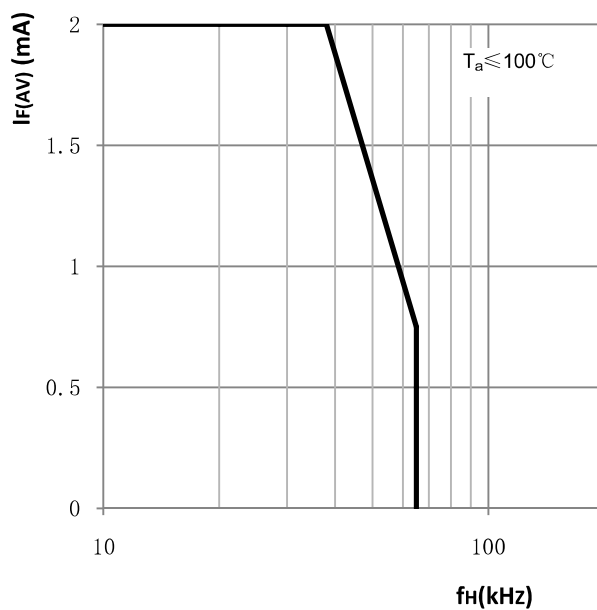


Figure 4. $I_F(AV)$ - f_H Curve

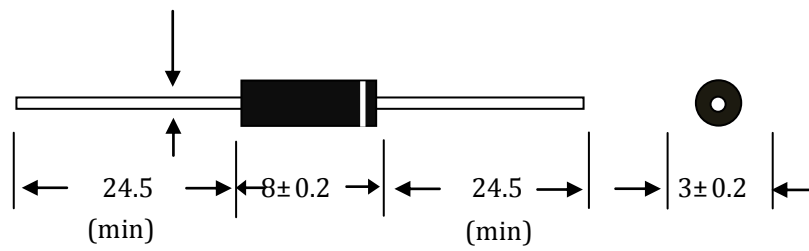
Ordering information

Package	Packing Description	Packing Quantity
DO-308	braid	2500PCS/Box 25000PCS/Carton

Package Dimensions(Millimeter(mm))

DO-308

Lead Diameter 0.6 ± 0.03



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