

High voltage diodes

Reverse Voltage – 4kV

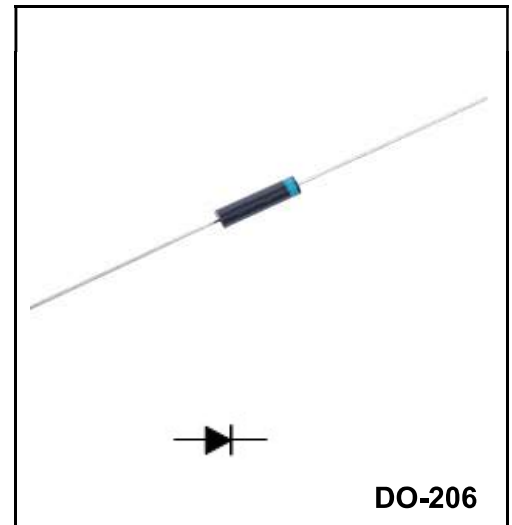
Forward Current –50mA

FEATURES

- ◆Supersmall size
- ◆High reliability
- ◆High speed switching

MECHANICAL DATA

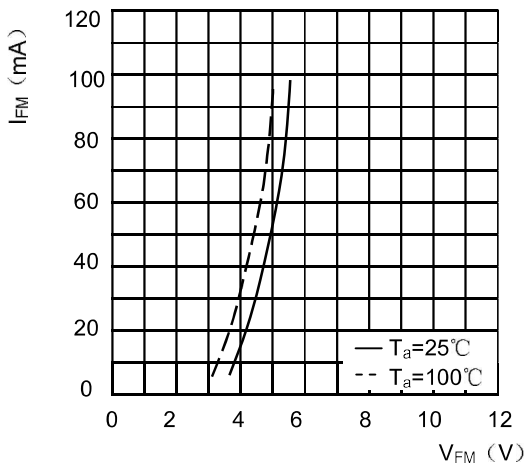
- ◆Case: Molded Plastic Body
- ◆Epoxy meets UL 94V-0 flammability rating
- ◆Terminals: Pure tin plated leads, solderable per J-STD-002and JESD22-B102, E3 suffix for consumer grade, meet JESD201class 1A whisker test.
- ◆Polarity: Color band denotes cathode end



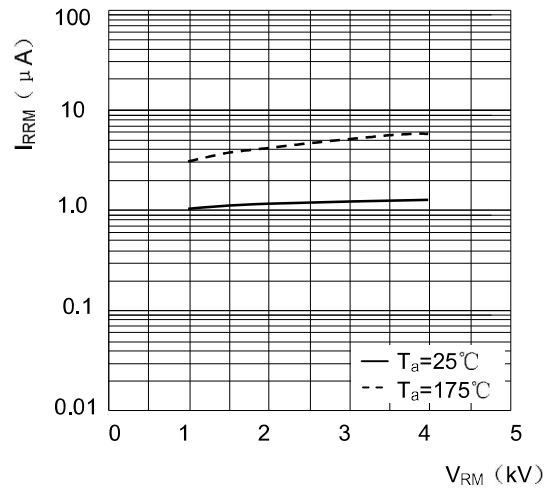
Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Symbol	2CL0504	Unit
Repetitive peak reverse voltage		V_{RRM}	4	KV
Non-Repetitive peak reverse voltage		V_{RSM}	4.4	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	$I_{F(AV)}$	50	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, Ta=25°C	I_{FSM}	3	A
Peak forward voltage	$I_{FM}=10mA$	V_{FM}	7	V
Peak reverse current $V_{RM}=V_{RRM}$	Ta=25°C	I_{RRM1}	2	μA
	Ta=175°C		30	
Avalanche breakdown voltage	$I_{RM}=100\mu A$	$V_{(BR)}$	5.5	KV
Storage Temperature Range		T_{stg}	-65 ~ +175	°C
Virtual junction temperature		$T_{(vj)}$	175	°C

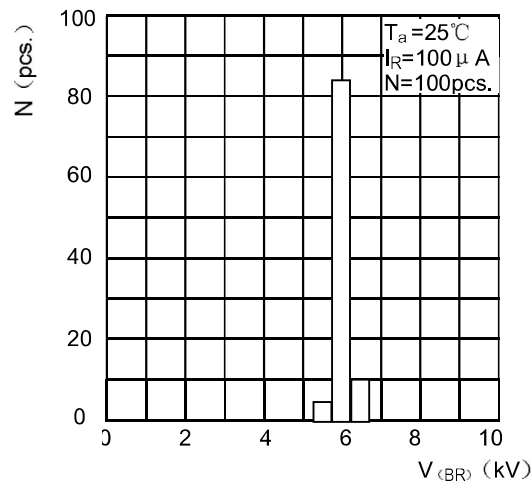
Typical characteristics



Forward Characteristics



Reverse Characteristics



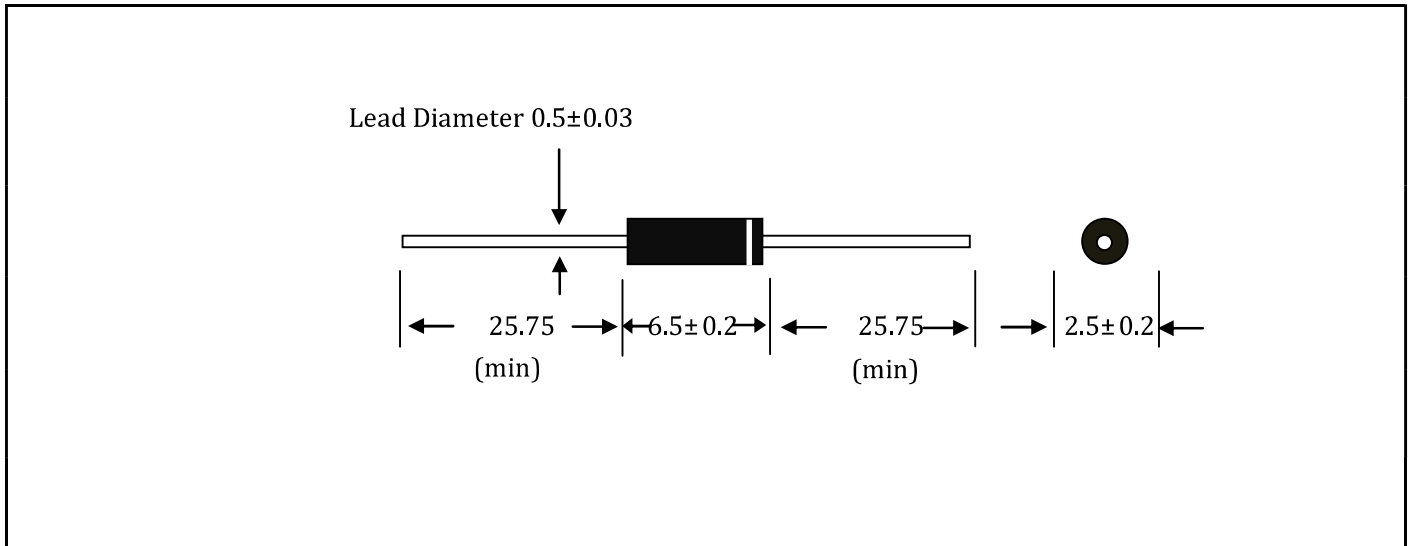
Breakdown Voltage Distribution

Ordering information

Package	Packing Description	Packing Quantity
DO-206	ammo pack	5000PCS/Inner Box 50000PCS/Carton

Package Dimensions(Millimeter(mm))

DO-206



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