

Fast recovery high voltage diodes

Reverse Voltage – 8KV

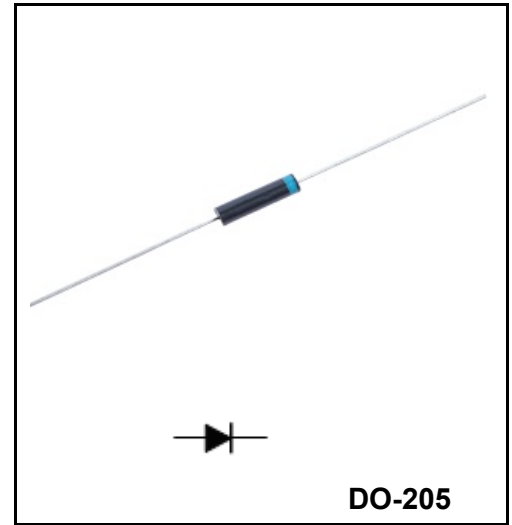
Forward Current –5mA

FEATURES

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

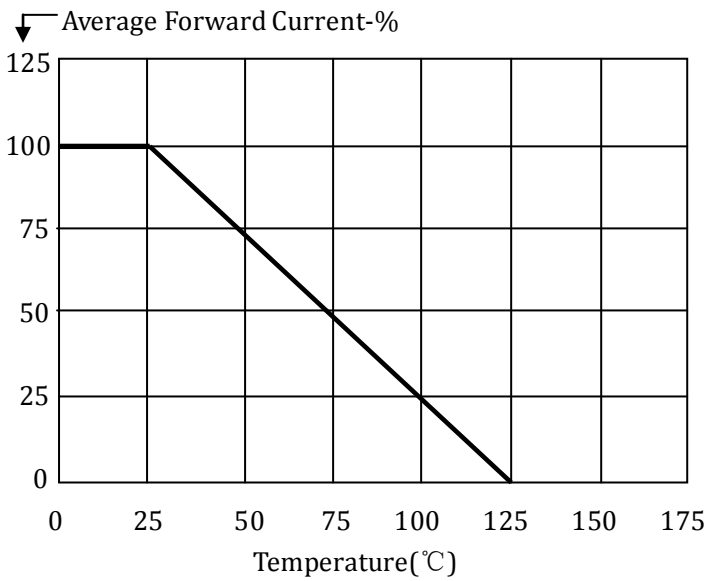
MECHANICAL DATA

- ◆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

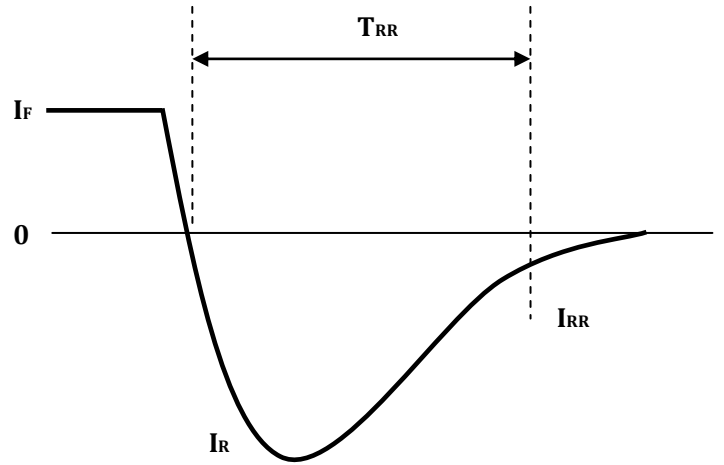


Parameter		Symbols	2CL71M	Units
Repetitive peak reverse voltage		V_{RRM}	8	KV
Non-Repetitive peak reverse voltage		V_{RMS}	10	KV
Average forward current	60Hz half-sine wave, Resistance load, $T_a=25^{\circ}C$	$I_{F(AV)}$	5	mA
Surge(Non-repetitive) forward current	60Hz half-sine wave, 1 cycle, $T_a=25^{\circ}C$	I_{FSM}	0.5	A
Peak forward voltage	$I_{FM}=10mA$	V_{FM}	30	V
Peak reverse current $V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$	I_{RRM}	2	μA
	$T_a=100^{\circ}C$		5	
Reverse recovery time	$I_F=2mA, I_{RM}=4mA$	T_{rr}	0.08	μS
Operating ambient temperature		T_a	-40~+125	$^{\circ}C$
Storage Temperature Range		T_{stg}	-40~+150	$^{\circ}C$
Virtual junction temperature		$T_{(vj)}$	125	$^{\circ}C$

Forward Current Derating Curve

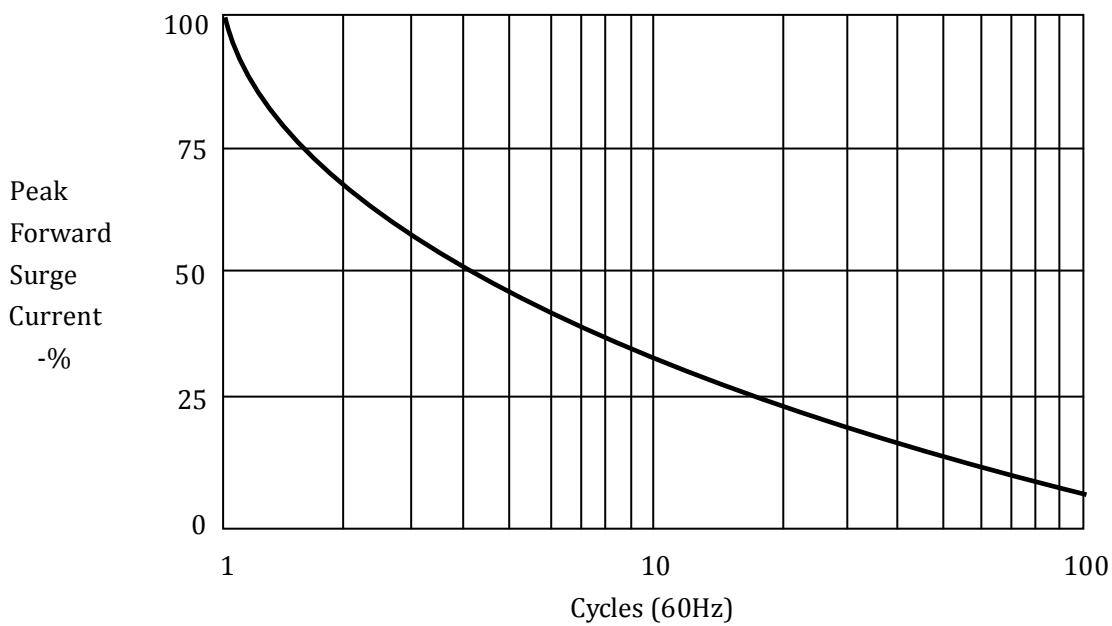


Reverse Recovery Measurement Waveform



Typical data capture points: $I_F = 0.5I_R$, $I_R, I_{RR} = 0.25I_R$
 I_R is typically the rated average forward current maximum (I_{FAVM}) of the D.U.T

Non-Repetitive Surge Current

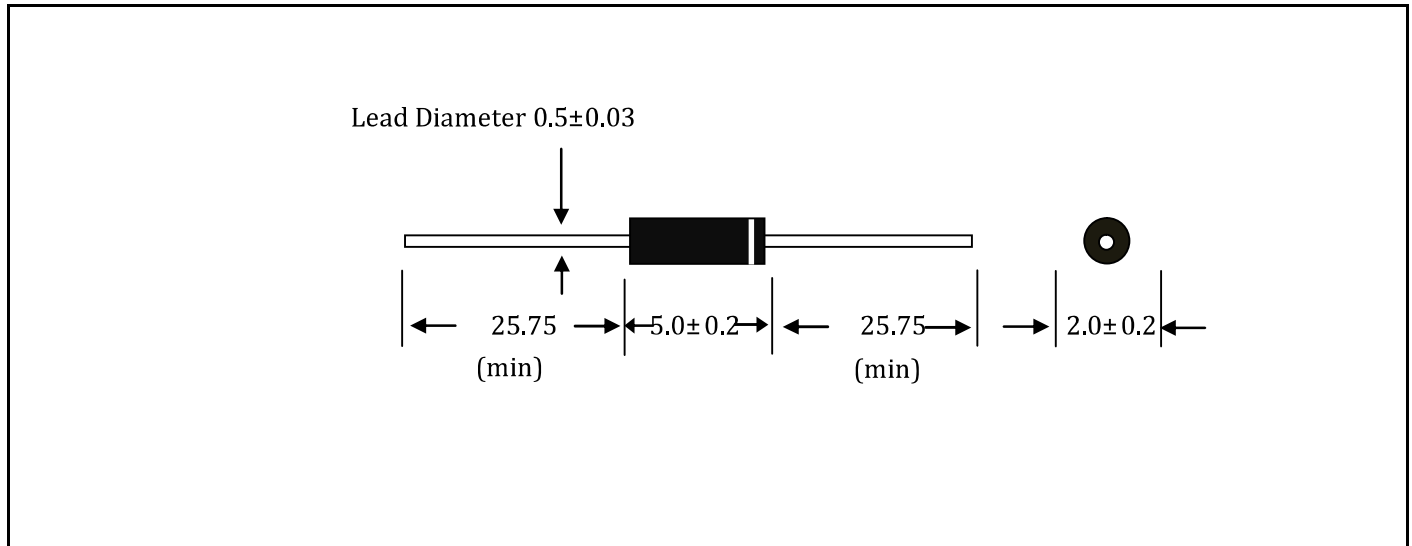


Ordering information

Package	Packing Description	Packing Quantity
DO-205	ammo pack	5000PCS/Inner Box 50000PCS/Carton

Package Dimensions(Millimeter(mm))

DO-205



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