

High Voltage Silicon Diodes

Reverse Voltage -15KV

Forward Current -200mA

FEATURES

♦High reliability

APPLICATIONS

Rectification for high voltage power supply of magnetron in Micro wave oven and others

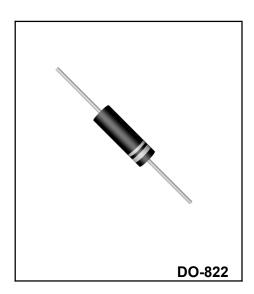
MECHANICAL DATA

♦Case: DO-822

♦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)

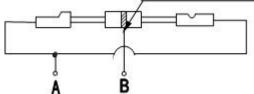
Parameter Repetitive peak reverse voltage		Symbols	UX-F15B	Units
		V _{RRM}	15	
Average forward current	60H _Z half-sine wave, Resistance load, Ta≤60°C	I _{F(AV)}	200	mA
Surge(Non- repetitive)forward current	60H _Z half-sine wave,1cycle,T _a =25°C	I _{FSM}	15	A
Peak forward voltage	I _{FM} =200mA	V_{FM}	17	v
Peak reverse current	V _{RM} =V _{RRM}	I _{RRM1}	10	μΑ
Reverse recovery time	I _F = _{IR} =100mA,90%recovery point	t _{rr}	0.08	μs
Virtual junction temperature		T _(vj)	120	°C
Storage Temperature Range		T_{stg}	-40 ~ +130	°C

Notes: Cooling Requirement: Cathode terminal is fastened to radiating fin that size is more than 50mm×50mm×0.6mm Wind-cooled velocity is more than 0.5m/s

Safety Test

3mm Wide metal film is rolled on the surface middle of diode body

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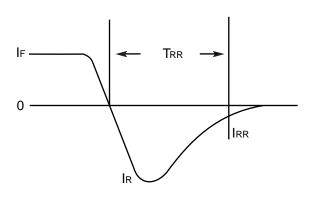


- 1. Insulation Resistance Test: 500V DC voltage is added between A and B. The measurement by insulation resistance meter is big than 1000ΜΩ.
- 2. Resistance To Voltage Strength Test: 15kV half-sine wave voltage is added between A and B for one minute and no breakdown or arc in insulation oil.



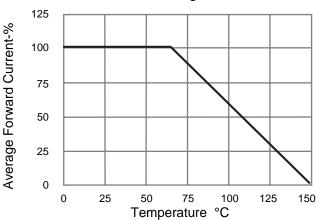
Typical characteristics

Reverse Recovery Measurement Waveform



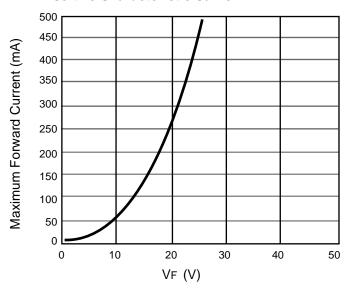
Typical data capture points: IF =0.5IR , IR ,IRR =0.25IR IR is typically the rated average forward current maximum (IFAVM) of the D.U.T.

Forward Current Derating Curve

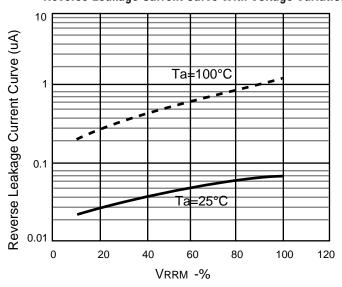


150 °C (All other part number)

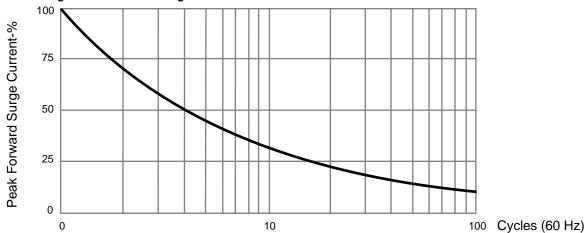
Positive Characteristic Curve



Reverse Leakage Current Curve With Voltage Variation



Repetitive Surge Current Derating Curve



This curve represents the percentage of published maximum surge rating as a function of surge repetition.

2/4

Note: Specifications subject to change without notice. Photo is representation only.

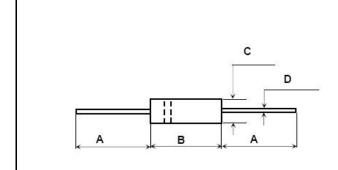


Ordering information

Package	Packing Description	Packing Quantity
DO-822	ammo pack	500PCS/ Inner Box 5000PCS/Carton

Package Dimensions(Millimeter(mm)

DO-822



Dim.	Inches		Millimeters	
	Min.	Max.	Min.	Max.
Α	0.787		20	
В	0.846	0.886	21.5	22.5
С	0.276	0.315	7.0	8.0
D	0.046	0.048	1.17	1.23

3 / 4



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