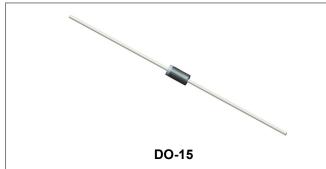


Technical Data Data Sheet N2101, Rev. -



UG2D

UG2D Ultra-Fast Recovery Rectifier Diodes



Circuit Diagram



Features

- Glass Passivated Die Construction
- High surge forward current capability
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- High speed switching
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014 ounce, 0.40 grams

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	200	V
Average Rectified Forward Current	lf (AV)	50% duty cycle @Tc=150°C, rectangular wave form	2	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse	80	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 2A, Pulse, T」= 25°C	0.95	V
Reverse Current*	I _{R1}	$@V_R = rated V_R$ T _J = 25°C	5	μA
	I _{R2}	@V _R = rated V _R T _J = 150°C	300	μA
Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	15	ns

* Pulse width < 300 µs, duty cycle < 2%

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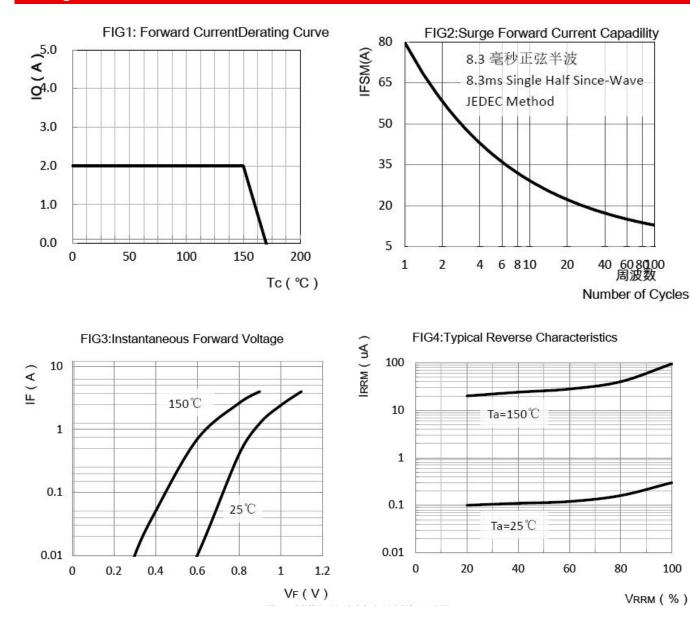
Data Sheet N2101, Rev. -

RoHS 🗭

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +175	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Lead	R _{0JL}	DC operation	55	°C/W
Approximate Weight	wt	-	0.09	g

Ratings and Characteristics Curves

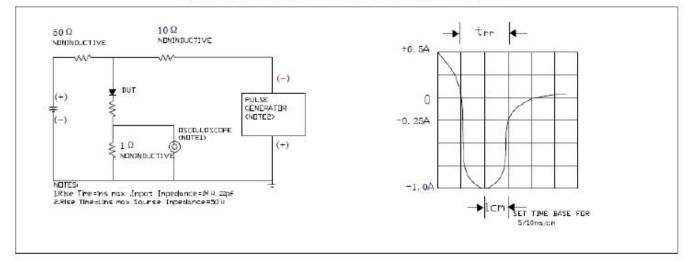




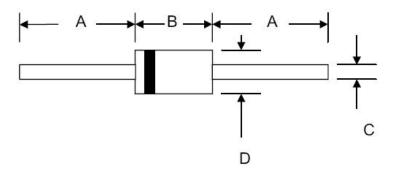
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RoHS

Diagram of circuit and Testing wave form of reverse recovery time



Mechanical Dimensions DO-15



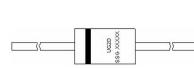
SYMBOL	Millimeters		Inches	
STMBOL	Min.	Max.	Min.	Max.
A	25.4	-	1.000	-
В	5.5	7.62	0.217	0.300
С	0.7	0.9	0.028	0.034
D	2.6	3.6	0.104	0.140

Ordering Information

Device	Package	Shipping	
UG2D	DO-15 (Pb-Free)	3000pcs /tape	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

JG2D	= Part Name
SSG	= SSG
Y	= Year
VW	= Week
-	= Lot Number

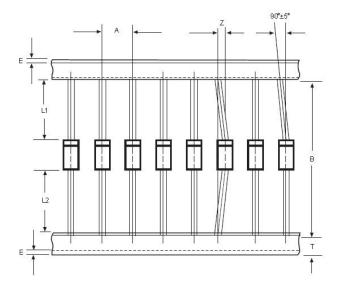
Cautions: Molding resin Epoxy resin UL:94V-0



UG2D



Carrier Tape Specification DO-15



SYMBOL	Millimeters		
STWIDOL	Min.	Max.	
А	4.50	5.50	
В	50.9	53.9	
Z	-	1.20	
Т	5.60	6.40	
E	-	0.80	
IL1-L2I	-	1.0	

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