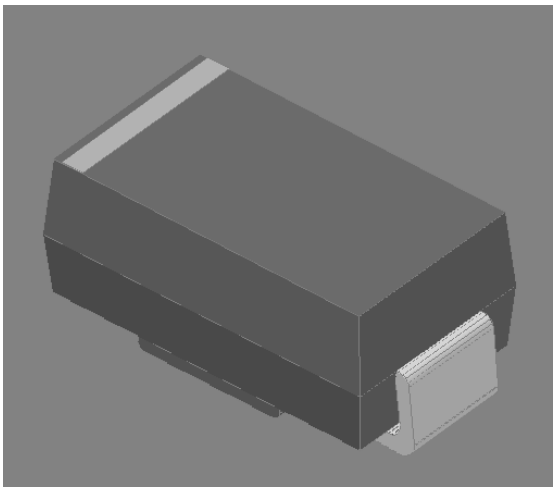
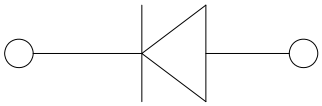
NUG2DA

RoHS
COMPLIANT





Typical Applications

For use in high frequency rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

- **Package**: DO-214AC (SMA)
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■Maximum Ratings (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	NUG2DA I
	o	**A**	**2. 0**
Surge(non-repetitive)forward current @ 6 0 H z Half-sine wave , 1 cycle , Ta = 25	I_{FSM}	A	50
Current squared time @1ms≤t≤8.3ms Tj=25 Rating of per diode	I^2t	A^2S	10.38
Typical junction capacitance@ Measured at 1MHz and Applied Reverse Voltage ! M ` @ !	ϵ T	'	R τ
	stg		-55 ~ +150
Junction temperature	Tj		-55 ~ +150

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	NUG2DA
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=2.0A	1.0
Maximum reverse recovery time	T_{RR}	ns	I_F=0.5A,I_R=1.0A, I_{rr}=0.25A	20
Maximum DC reverse current at rated DC blocking voltage per diode @ V_{RM}=V_{RRM}	I_{RRM}	μA	Ta=25	5
			Ta=125	50

■Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	NUG2DA
Typical Thermal Resistance	$R_{\theta J-A}$	/W	75[1)]
	$R_{\theta J-L}$	/W	20[1)]
	$R_{\theta J-C}$	/W	18[1)]

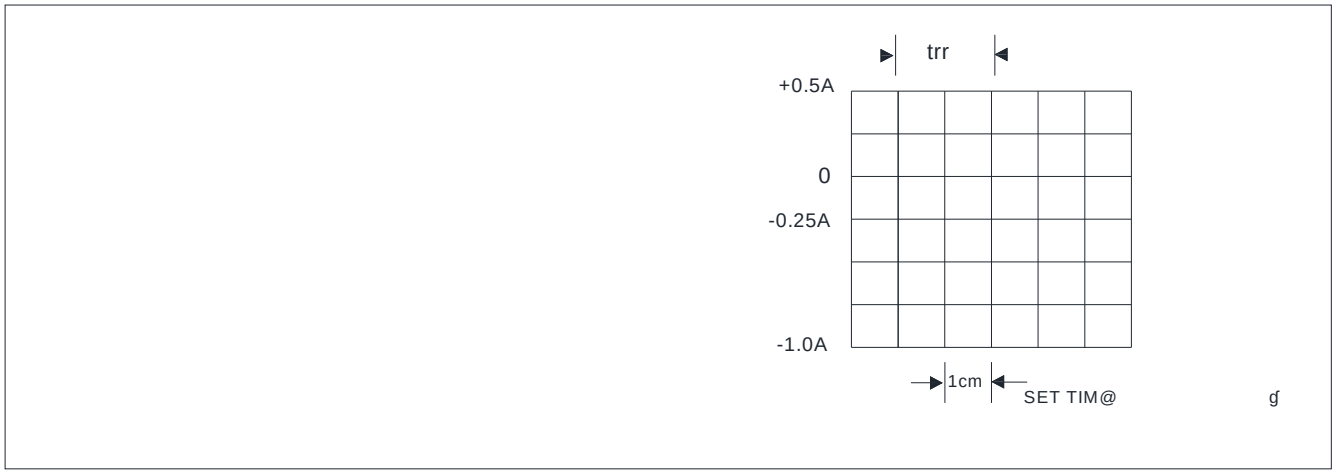
Note
(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

1) 1 ض

■ Characteristics (Typical)

R

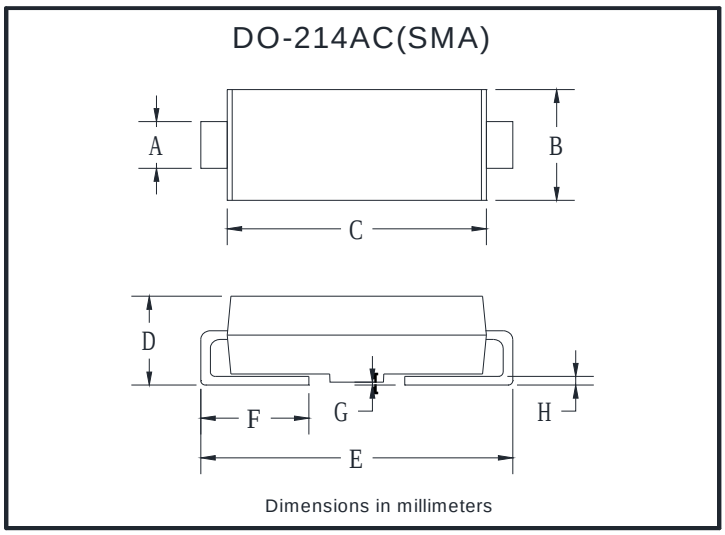
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■Ordering Information (Example)

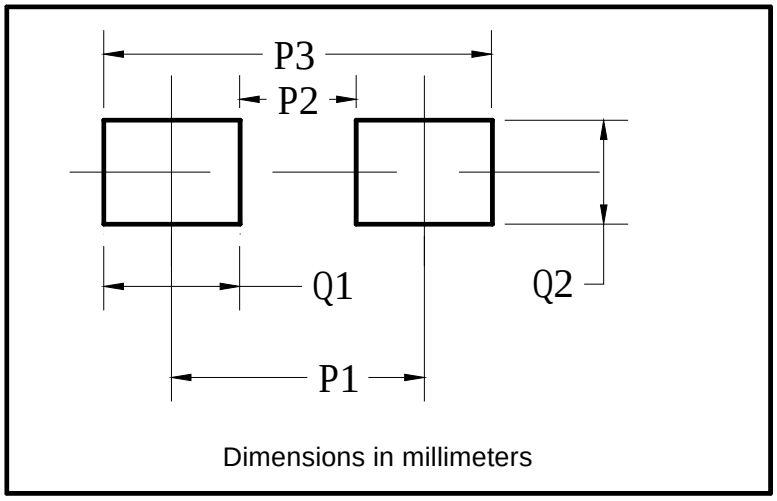
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
NUG2DA	F1	Approximate 0.059	5000	10000	80000	13” reel
NUG2DA	F2	Approximate 0.059	7500	15000	120000	13” reel
NUG2DA	F3	Approximate 0.059	7500	15000	60000	13” reel
NUG2DA	F4	Approximate 0.059	1800	7200	57600	7” reel
NUG2DA	F5	Approximate 0.059	2000	8000	64000	7” reel
NUG2DA	F6	Approximate 0.059	5000	10000	100000	13” reel

■ Outline Dimensions



DO-214AC(SMA)		
Dim	Min	Max
A	1.25	1.58
B	2.40	2.83
C	4.25	4.75
D	1.90	2.30
E	4.93	5.28
F	0.76	1.41
G	0.08	0.20
H	0.15	0.31

■Suggested Pad Layout



Dimensions in millimeters

DO-214AC(SMA)	
Dim	Millimeters
P1	4.00
P2	1.50
P3	6.50
Q1	2.50
Q2	1.70

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