GN2AA thru GN2MA

GOOD-ARK Electronics

2A,50-1000V Standard Rectifiers

Features

- Low leakage current
- Low forward voltage drop
- Glass passivated chip junction
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition
- High temperature soldering guaranteed: 260 ℃/10 seconds





SMA(DO-214AC)

Applications

For use of general purpose rectification in lighting, cellular phone, portable device, power supplies and other consumer applications.

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)									
Parameter	Symbol	GN2AA	GN2BA	GN2DA	GN2GA	GN2JA	GN2KA	GN2MA	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	2					А		
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	Ігѕм	60					А		
Operating junction temperature range	Τ _J	-55 to +150				°C			
Storage temperature range	T_{STG}	-55 to +150					°C		

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)							
Parameter	Symbol	Тур	Unit				
Thermal Resistance, Junction to Ambient	Reja	90	°C /W				
Thermal Resistance, Junction to Case	Rejc	20	°C /W				
Thermal Resistance, Junction to Lead	R _{θJL}	25	°C /W				



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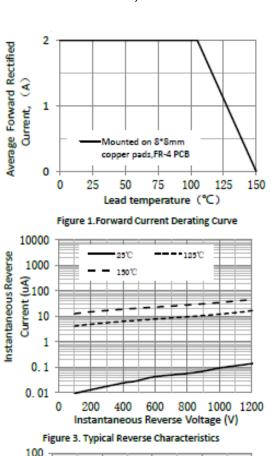
Electrical Specifications(TA=25°C unless otherwise noted)										
Parameter	Symbol	Test Conditions	GN2AA	GN2BA	GN2DA	GN2GA	GN2JA	GN2KA	GN2MA	Unit
Forward Drop Voltage	VF	I⊧=2A	1.1						V	
Reverse leakage current @V _R	l _R	TJ =25°C	5							- uA
	IR	T _J =125°C				50				uA
Typical junction capacitance	Сл	4.0 V 1 MHZ	9.5					pF		
Typical reverse recovery time	trr	I _F =0.5A,								uS
		I _R =1.0A, I _{RR} =0.25A	1.8							

Note:

1. Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



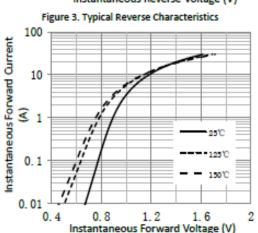


Figure 5. Typical Instantaneous Forward Characteristics

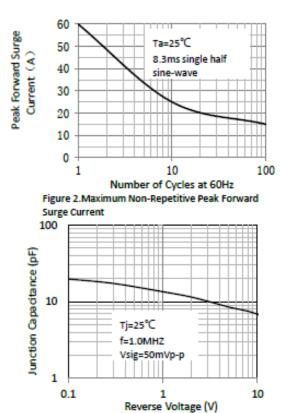


Figure 4. Typical Junction Capacitance

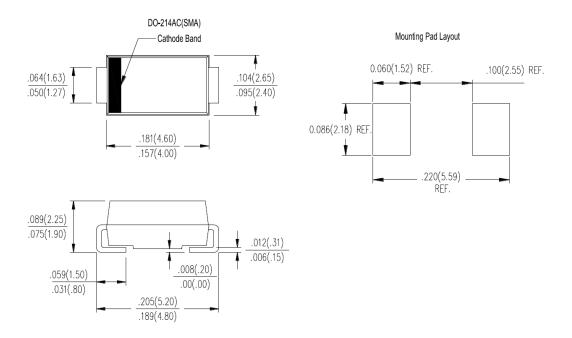


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Package Outline Dimensions

in inches (millimeters)

SMA (DO-214AC)



Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.18	Modify document format



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