

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



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	GN2A	GN2B	GN2D	GN2G	GN2J	GN2K	GN2M	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					Α		
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	IFSM	60					А		
Operating junction temperature range	TJ	-55 to +150				°C			
Storage temperature range	Тѕтс	-55 to +150					°C		

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)							
Parameter	Symbol	Тур	Unit				
Thermal Resistance, Junction to Ambient	R _θ JA	85	°C /W				
Thermal Resistance, Junction to Case	Rejc	15	°C /W				
Thermal Resistance, Junction to Lead	ReJL	20	°C /W				



GN2A thru GN2M GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)														
Parameter	Symbol	Test Conditions	GN2A	GN2B	GN2D	GN2G	GN2J	GN2K	GN2M	Unit				
Forward Drop Voltage	V _F	I⊧=2A	1.15						V					
Reverse		T _J =25°C				5								
leakage current @V _R	I _R	TJ=125°C				125				uA				
Typical junction capacitance	CJ	4.0 V 1 MHZ	10					pF						
Typical		I _F =0.5A,												
reverse	* *	I _R =1.0A,	2						uS					
recovery time		I _{RR} =0.25A												

Note:

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

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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

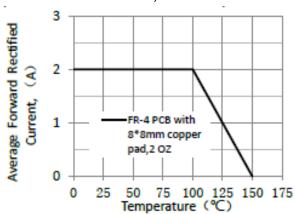


Figure 1. Forward Current Derating Curve

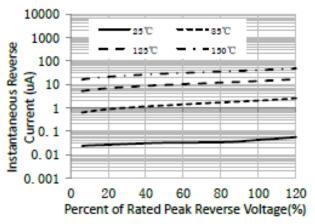


Figure 3. Typical Reverse Characteristics

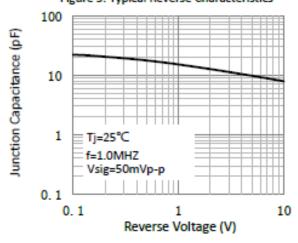


Figure 5. Typical Junction Capacitance

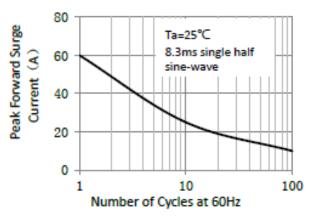


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

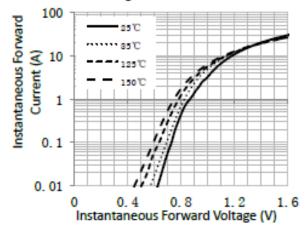


Figure 4. Typical Instantaneous Forward Characteristics

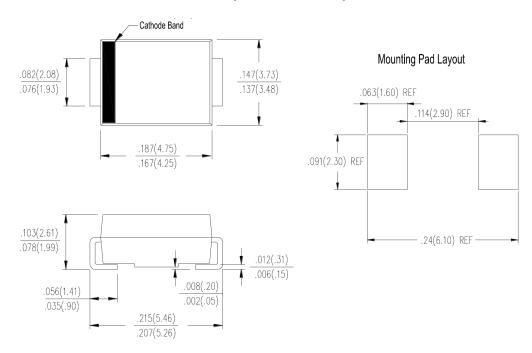


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Package Outline Dimensions

in inches (millimeters)

SMB (DO-214AA)



Revision History

Document Version	Date of release	Description of changes				
Rev.A	2021.06.01	Released Datasheet				
Rev.B	2023.10.13	Modify document format				



GN2A thru GN2M

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