

AGN2DL thru AGN2ML

GOOD-ARK Electronics

2A,200-1000V 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°C/10 seconds
- AEC-Q101 qualified



Applications

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

Maximum Ratings & Electrical Characteristics(Ta=25°C unless otherwise noted)							
Parameter	Symbol	AGN2DL	AGN2GL	AGN2JL	AGN2KL	AGN2ML	Unit
Maximum repetitive peak reverse voltage	VRRM	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	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	I _{FSM}	55				A	
Operating junction temperature range	TJ	-55 to +150 °C				°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	R _{thJA}	85	°C /W			
Thermal Resistance, Junction to Case	R_{thJC}	15	°C /W			
Thermal Resistance, Junction to Lead	RthJL	18	°C /W			



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Electrical Specifications (TA=25°C unless otherwise noted)								
Parameter	Symbol	Test Conditions	AGN2DL	AGN2GL	AGN2JL	AGN2KL	AGN2ML	Unit
Maximum forward drop voltage	V _F	l⊧=2A	1.1			V		
Maximum reverse		TJ =25℃	5					uA
leakage IR current @V _R	T」=125℃			50			un	
Typical junction capacitance	CJ	V _R = 4.0 V f=1 MHZ	11			pF		
Typical reverse recovery	trr	I _F =0.5A, I _R =1.0A,			2.5			uS
time		I _{RR} =0.25A						

Note:

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



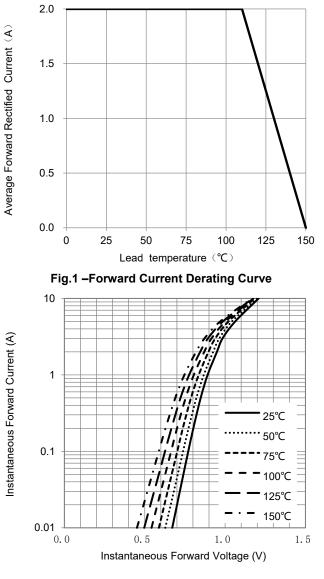
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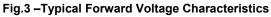
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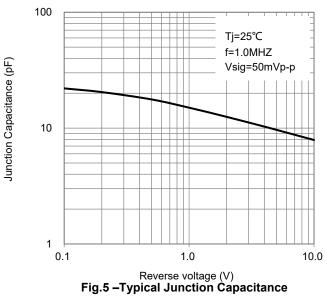
Ratings and Characteristics Curves (TA = 25°C unless otherwise noted)

Peak Forward Surge Current(A)

Instantaneous Reverse Current (uA)







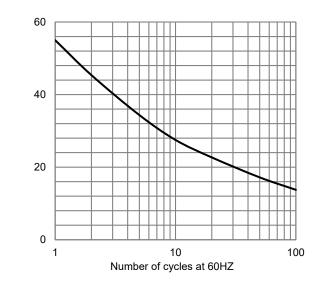
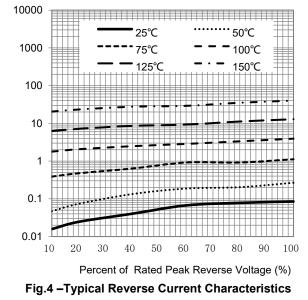


Fig.2 – Maximum Non-Repetitive Surge Current



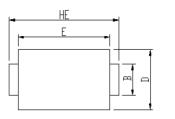


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Package Outline Dimensions

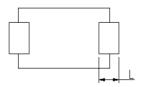
in inches (millimeters)

eSGB (DO-221AC)



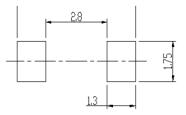






DIM	Unit:	mm	Unit: inch		
	MIN	MAX	MIN	MAX	
Α	0.92	1.08	0.036	0.043	
A1	0	0.1	0.000	0.004	
В	1.25	1.45	0.049	0.057	
C	0.1	0.25	0.004	0.010	
D	2.6	2.8	0.102	0.110	
E	4.1	4.3	0.161	0.169	
L	0.7	1.1	0.028	0.043	
HE	4.8	5.2	0.189	0.205	

Soldering footprint





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