

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



eSGB (DO-221AC)

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	L21A	L22A	L23A	L24A	L25A	L26A	L27A	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	٧
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	55				А			
Operating junction temperature range	TJ	-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	RθJA	85	°C /W				
Thermal Resistance, Junction to Case	R _θ JC	15	°C /W				
Thermal Resistance, Junction to Lead	ReJL	18	°C /W				

L21A thru L27AGOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)										
Parameter	Symbol	Test Conditions	L21A	L22A	L23A	L24A	L25A	L26A	L27A	Unit
Forward Drop Voltage	V _F	I⊧=2A	1.1						V	
Reverse leakage I _R current @V _R	T _J =25°C	5							- uA	
	IR	T」=125°C	50							uA
Typical junction capacitance	CJ	4.0 V 1 MHZ	6					pF		
Typical reverse trr		I _F =0.5A, I _R =1.0A,	2.3						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.



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

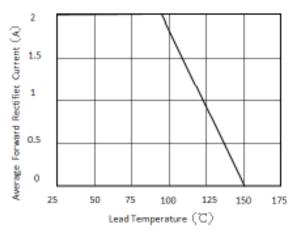


Figure 1. Forward Current Derating Curve

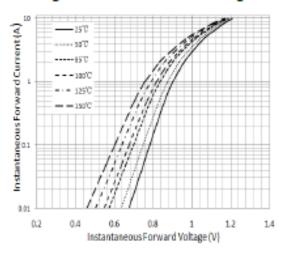


Figure 3. Typical Instantaneous Forward Characteristics

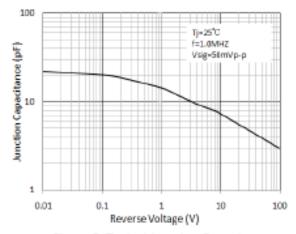


Figure 5. Typical Junction Capacitance

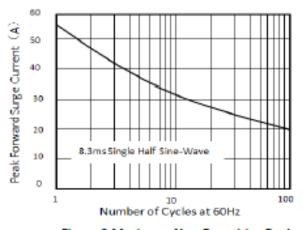


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

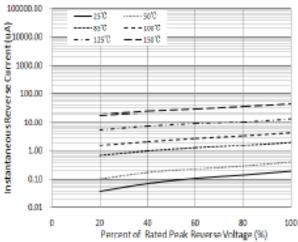


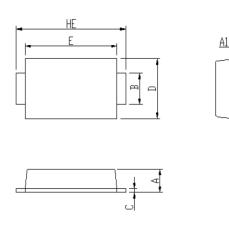
Figure 4. Typical Reverse Characteristics

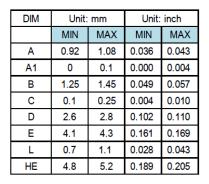


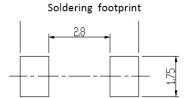
Package Outline Dimensions

in inches (millimeters)

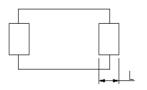
eSGB (DO-221AC)







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Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.12	Modify document format
Rev.C	2023.12.29	Modify package name



L21A thru L27A

GOOD-ARK Flectronics

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