

GOOD-ARK Electronics

2A,50-1000V Fast Recovery 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



eSGB (DO-221AC)

Applications

For use of fast switching 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	L2F1-SL	L2F2-SL	L2F3-SL	L2F4-SL	L2F5-SL	L2F6-SL	L2F7-SL	Unit
Maximum repetitive peak reverse voltage	VRRM	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	VDC	50	100	200	400	600	800	1000	>
Maximum average forward rectified current	İ F(AV)	2						Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	İfsm	60					А		
Operating junction temperature range	Тл	-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	Reja	85	°C /W				
Thermal Resistance, Junction to Case	Rejc	15	°C /W				
Thermal Resistance, Junction to Lead	Rejl	18	°C /W				



L2F1-SL thru L2F7-SL GOOD-ARK Electronics

Electrical Specifications (TA=25°C unless otherwise noted)													
Parameter	Symbol	Test Conditions	L2F1-SL	L2F2-SL	L2F3-SL	L2F4-SL	L2F5-SL	L2F6-SL	L2F7-SL	Unit			
Forward Drop Voltage	VF	l⊧=2A	1.3					V					
Reverse leakage current @V _R	ĪR	T₃ =25°C	5							- uA			
		TJ =125°C				50				- uA			
Typical junction capacitance	CJ	4.0 V 1 MHZ	11					pF					
Maximum reverse recovery time	trr	I _F =0.5A,											
		I _R =1.0A,			150		250	50	00	nS			
		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)

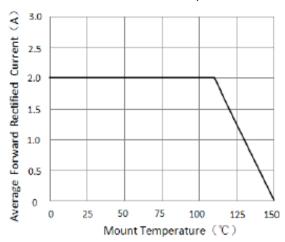


Figure 1.Forward Current Derating Curve

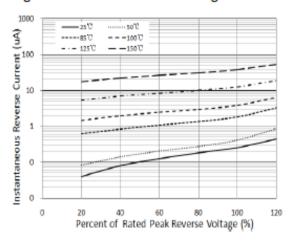


Figure 3. Typical Reverse Characteristics

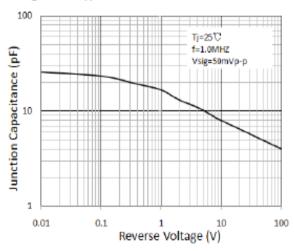


Figure 5. Typical Junction Capacitance

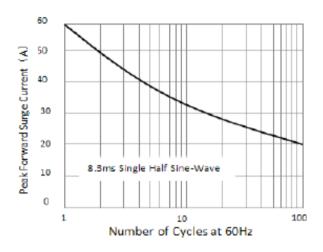


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

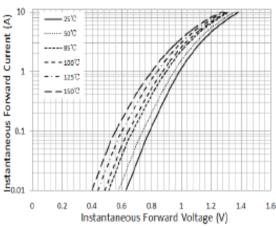


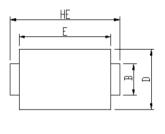
Figure 4. Typical Instantaneous Forward Characteristics



Package Outline Dimensions

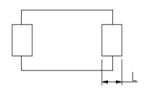
in inches (millimeters)

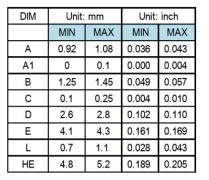
eSGB (DO-221AC)



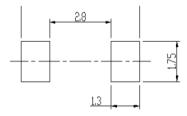








Soldering footprint



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			



L2F1-SL thru L2F7-SL

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