

GOOD-ARK Electronics

3A,60-100V Schottky Barrier Rectifiers

Features

- Low leakage current
- Schottky barrier diodes
- Low forward voltage drop
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition



eSGB (DO-221AC)

Applications

For use in low voltage, high frequency inverters, free-wheeling and polarity protection application.

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	LS36	LS3B	Unit
Maximum repetitive peak reverse voltage	VRRM	60	100	V
Maximum RMS voltage	VRMS	42	70	V
Maximum DC blocking voltage	VDC	60	100	V
Maximum average forward rectified current	lf(AV)	3		Α
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	Ігѕм	100		А
Operating junction temperature range	Tu	-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

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Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions		Тур	Max	Unit
Forward Drop Voltage	VF	LS36	l⊧=3A Ta=25℃	-	0.70	V
			I⊧=3A T _A =125℃	0.55	-	
		LOOD	l⊧=3A T _A =25℃	-	0.80	
		LS3B	l⊧=3A T _A =125℃	0.60	-	
Maximum reverse leakage current @Vʀ	lR	T _J =25℃		0.5		mA
		T₃ =125°C		100		
Typical junction capacitance	Сл	4.0 V 1 MHZ		234		pF

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)

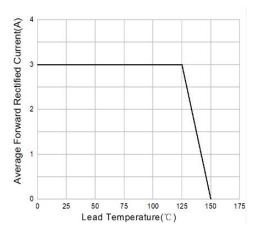


Figure 1.Forward Current Derating Curve

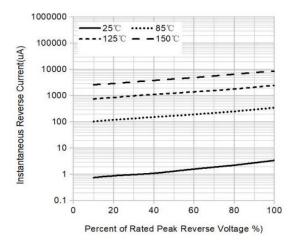


Figure 3. Typical Reverse Characteristics

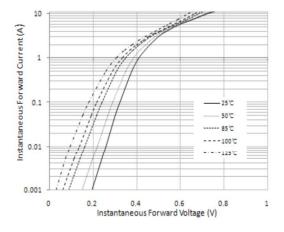


Figure 5. Typical Instantaneous Forward Characteristics

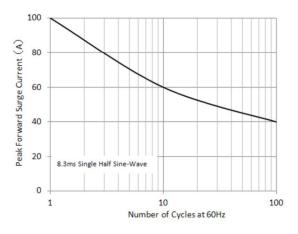


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

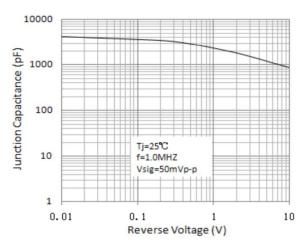


Figure 4. Typical Junction Capacitance

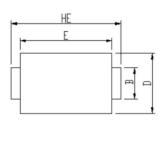


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Package Outline Dimensions

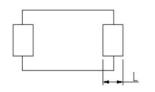
in inches (millimeters)

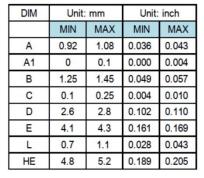
eSGB (DO-221AC)



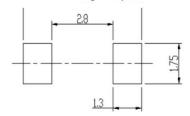








Soldering footprint



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
Rev.D	2025.10.9	Modify ratings and characteristics curves
Rev.E	2025.10.27	Modify ratings and characteristics curves



LS36 thru LS3B

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