

3A,60V Schottky Barrier Rectifier

Features

- Low leakage current
- Schottky barrier diode
- Low forward voltage drop
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition
- High temperature soldering guaranteed: 260 ℃/10 seconds
- AEC-Q101 Qualified



eSGB (DO-221AC)

Applications

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

Maximum Ratings & Electrical Characteristics(T _A =25°C unless otherwise noted)						
Parameter	Symbol ALSL36		Unit			
Maximum repetitive peak reverse voltage	V_{RRM}	60				
Maximum RMS voltage	V _{RMS}	42				
Maximum DC blocking voltage	V _{DC}	60	٧			
Maximum average forward rectified current	I _{F(AV)}	3	Α			
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	IFSM	I _{FSM} 100				
Operating junction temperature range	TJ	-55 to +125				
Storage temperature range	T _{STG}	-55 to +125	°C			

Thermal-Mechanical Specifications (T _A =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	R _{thJL}	18	°C /W			



ALSL36 GOOD-ARK Electronics

Electrical Specifications(T _A =25°C unless otherwise noted)								
Parameter	Symbol	Test Conditions	Тур	Max	Unit			
Forward drop voltage V _F	V _F	I _F =1A	0.42	0.45	V			
		I _F =2A	0.47	0.50				
		I⊧=3A	0.51	0.55				
		I _F =3A, T _A =100°C	0.46	-				
Reverse leakage current @V _R I _R	T _J =25°C	-	5					
	IR IR	T _J =100°C	-	100	· mA			
Junction capacitance	CJ	V _R =4.0V, f=1MHZ	1320	-	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)

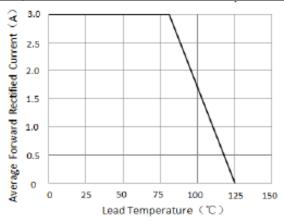


Figure 1.Forward Current Derating Curve

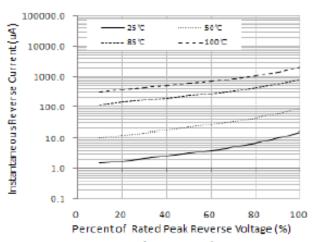


Figure 3. Typical Reverse Characteristics

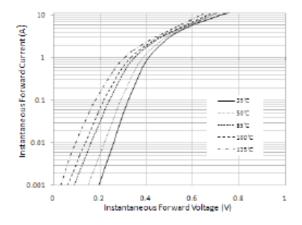


Figure 5. Typical Instantaneous Forward Characteristics

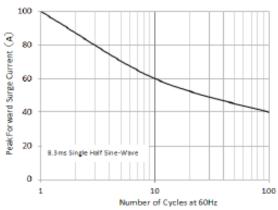


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

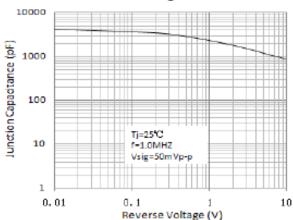


Figure 4. Typical Junction Capacitance

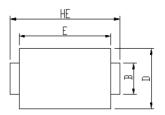




Package Outline Dimensions

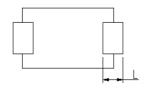
in inches (millimeters)

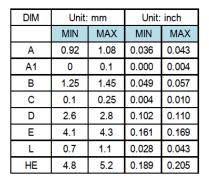
eSGB (DO-221AC)



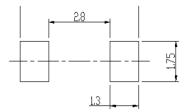








Soldering footprint







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