



2A,200V Superfast Rectifier

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 in secondary rectification and freewheeling for superfast switching speeds of converters in consumer applications.

Maximum Ratings & Electrical Characteristics(T _A =25°C unless otherwise noted)							
Parameter	Symbol	ES2HDL	Unit				
Maximum repetitive peak reverse voltage	V _{RRM}	200	V				
Maximum RMS voltage	V _{RMS}	140	\				
Maximum DC blocking voltage	V _{DC}	200	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	Ігѕм	60	А				
Operating junction temperature range	TJ	-55 to +175	°C				
Storage temperature range	Tstg	-55 to +175	°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			

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Electrical Specifications(T _A =25°C unless otherwise noted)								
Parameter	Symbol	Test Conditions	ES2HDL	Unit				
Maximum forward drop voltage	VF	I _F =2A	0.9	V				
Maximum reverse leakage current @V _R	I _R	T _J =25°C	5	uA				
Typical junction capacitance	Сл	V _R =4.0V, f=1MHZ	34	pF				
Maximum reverse recovery time	trr	I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	25	ns				

Note:

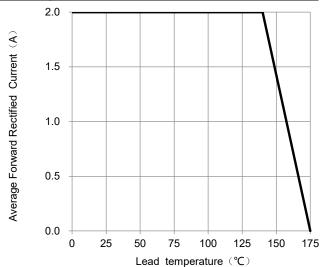
1.Mounted on copper pad area of 5 x 5mm to each terminal.

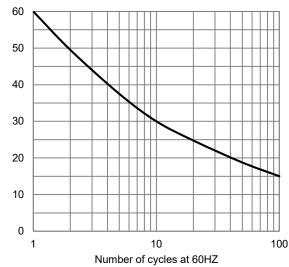


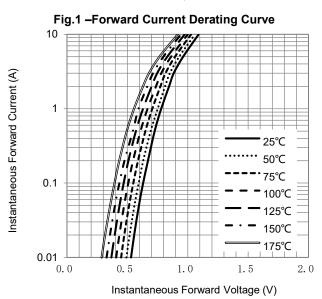


Ratings and Characteristics Curves (TA = 25°C unless otherwise noted)

Peak Forward Surge Current(A)







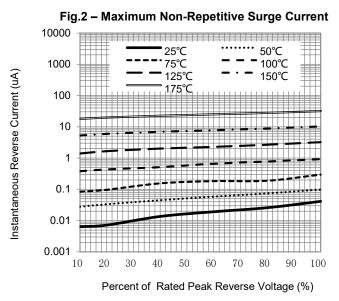
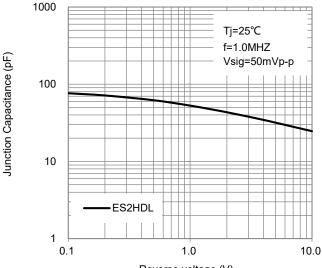


Fig.3 - Typical Forward Voltage Characteristics

Fig.4 - Typical Reverse Current Characteristics



Reverse voltage (V) Fig.5 –Typical Junction Capacitance

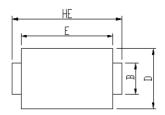


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Package Outline Dimensions

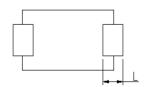
in inches (millimeters)

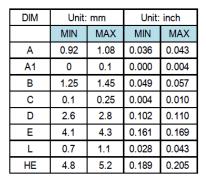
eSGB (DO-221AC)



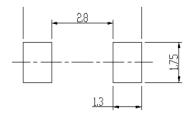








Soldering footprint





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