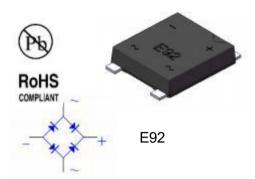




Reverse Voltage 200~1000V Output Current 3.0A

Features

- Glass passivated Bridge Rectifiers
- · Ideal for automated placement
- Very low profile-typical height 1.4 mm
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260 ℃/10 seconds



Mechanical Data

- Case: E92, Molding compound meets UL 94V-0 flammability rating
- Terminals: Matte tin plated leads, solderable per MII-STD-750 Method 2026, J-STD-002 and JESD22-B102

Typical Applications

General purpose use in ac-to-dc bridge full wave rectification for TV, Monitor, SMPS, Adapter, Printer, Audio equipment, and Home Applications application

Maximum Ratings (TA = 25 °C unless otherwise noted)							
Parameter	Symbol	E92303A	E92304A	E92305A	E92306A	E92307A	Unit
Maximum repetitive peak reverse voltage	VRRM	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	200	400	600	800	1000	V
Maximum average output rectified current	Io(AV) ¹⁾	3.0			Α		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load	IFSM	100			А		
Rating for fusing (t≤8.3ms)	l²t	42			A ² s		
Operating junction and storage temperature range	TJ, TSTG	-55 to +150			°C		

E92303A thru E92307A GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	E92303A	E92304A	E92305A	E92306A	E92307A	Unit
Maximum Instantaneous forward voltage	IF=1.5A,Ta=25℃		1.0					
	IF=1.5A,Ta=125℃				0.90			
	IF=3.0A,Ta=25℃	V _F	1.05					
	IF=3.0A,Ta=125℃				0.95			
Maximum DC reverse current at rated DC blocking voltage	Ta=25°C		5.0					
	Ta=125℃	I _R	100					
Typical junction capacitance	4.0 V, 1 MHz	CJ	28			pF		
Maximum reverse recovery time	I _F =0.5A,I _R =1.0A, I _{rr} =0.25A	t _{rr}	2.5				us	
Typical thermal resistance ²⁾	juntion to ambient	R _{θJA}		39				
	juntion to case	R _{θJC}	16					°C/W

Note 1). Device mounted 13*13mm copper pad areas with Al2O3 substrate PCB

^{2).} Device mounted 13*13mm copper pad areas with FR-4 PCB



Ratings and Characteristics Curves

(TA = 25[°]C unless otherwise noted)

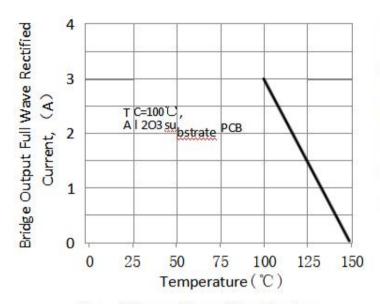


Figure 1.Forward Current Derating Curve

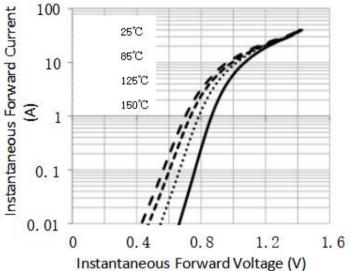


Figure 3. Typical Instantaneous Forward Characteristics

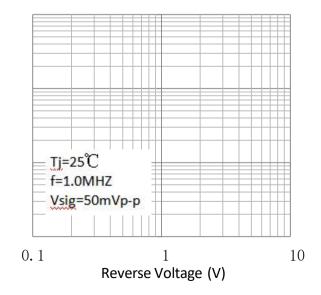


Figure 5. Typical Junction Capacitance

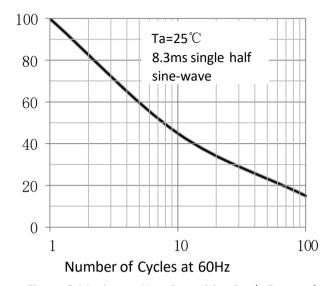


Figure 2. Maximum Non-Repetitive Peak Forward **Surge Current**

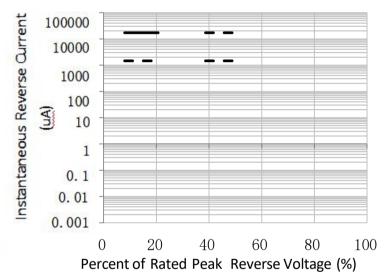


Figure 4. Typical Reverse Characteristics

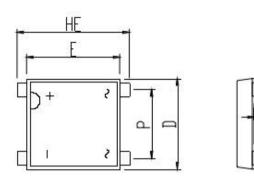
Peak Forward Surge Current

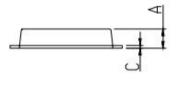
 $\widehat{\mathbf{A}}$

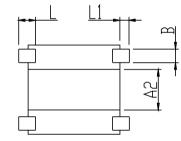




Package Outline Dimensions







unit:mm

Dim	Min	Nom.	Max
HE	8.55	8.75	8.95
Е	7.06	7.26	7.46
D	6.40	6.6	6.80
Р	4.80	5.0	5.20
Α	1.30	1.4	1.50
С	0.18	0.2	0.30
L	1.00	1.30	1.50
L1	0.60	0.75	1.00
В	0.85	1.0	1.15
A1	_	0.05	_
A2	-	3.0	-





GOOD-ARK Flectronics

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