Elektronische Bauelemente

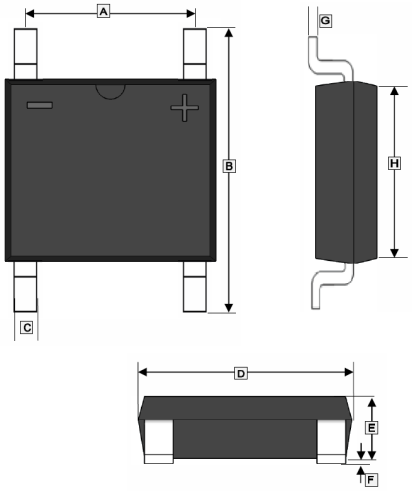
UABS22-C~UABS210-C

Voltage 200V~1000V

2.0 Amp Single Phase Ultra Fast Glass Passivated Bridge Rectifier

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

ABS



FEATURES

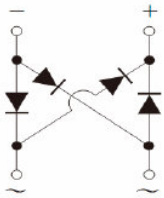
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

MECHANICAL DATA

- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number

ORDER INFORMATION

Part Number	Type
UABS22-C~UABS210-C	Lead (Pb)-free and Halogen-free



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	3.8	4.2	E	1.2	1.5
B	6	6.8	F	-	0.2
C	0.5	0.7	G	0.15	0.25
D	4.8	5.3	H	4.2	4.6

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25℃ ambient temperature unless otherwis e specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number					Unit
			UABS 22-C	UABS 24-C	UABS 26-C	UABS 28-C	UABS 210-C	
Peak Repetitive Reverse Voltage		V_{RRM}	200	400	600	800	1000	V
Working Peak Reverse Voltage		V_{RWM}						
DC Blocking Voltage		V_{DC}						
RMS Reverse Voltage		V_{RMS}	140	280	420	560	700	V
Average Rectified Output Current [1]	T_C=100℃	I_F	2					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	60					A
Rating for Fusing (t<8.3ms)		I^2t	14.9					A^2s
Forward Voltage Per Element @I_F=2A		V_F	1	1.3	1.7			V
Maximum Reverse Recovery Time [2]		T_{rr}	50		75			nS
Peak Reverse Current @DC Blocking Voltage	T_J=25℃	I_R	5					μA
	T_J=125℃		100					
Typical Junction Capacitance [3]		C_J	19					pF
Typical Thermal Resistance		$R_{\theta JA}$	62.5					℃/W
		$R_{\theta JL}$	25					
Operating & Storage Temperature Range		T_J, T_{STG}	-55~150					℃

Notes:

1. Mounted on glass epoxy PC board with 1.3mm^2 solder pad.
2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, I_{RR}=0.25A.
3. Measured at 1MHz and applied reverse voltage of 4V D.C.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1 FORWARD CURRENT DERATING CURVE

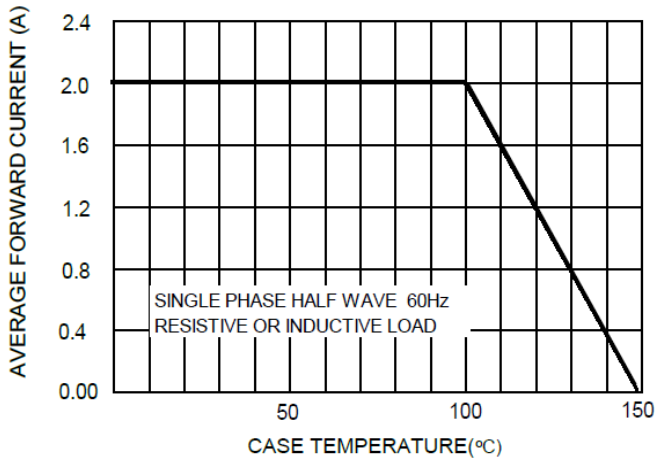


FIG.2 TYPICAL FORWARD CHARACTERISTICS

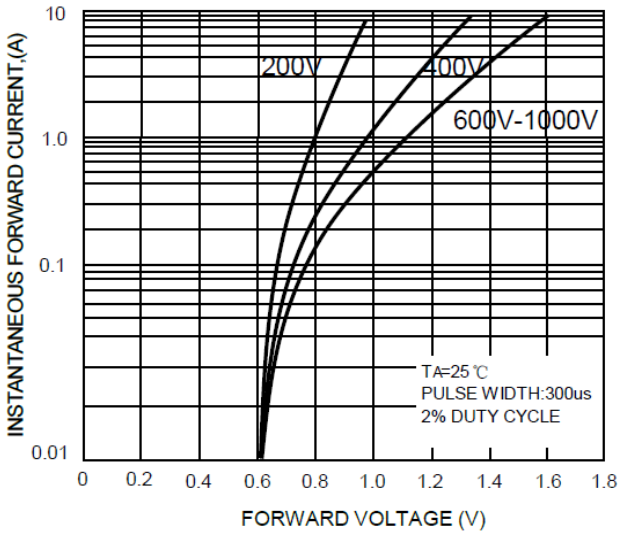


Fig. 3 Maximum Peak Forward Surge Current

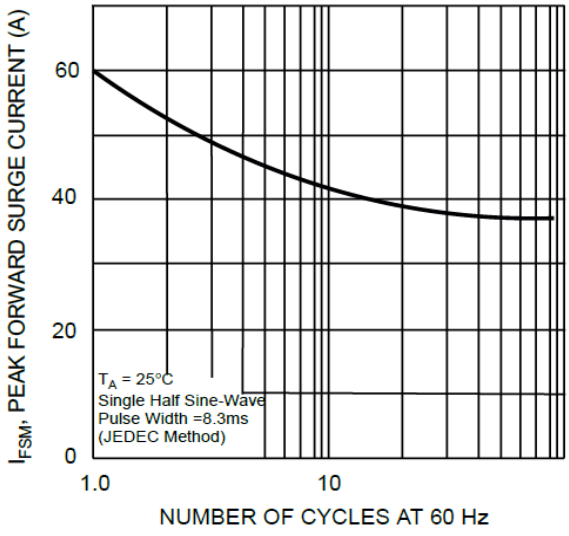


Fig. 4 Typical Reverse Characteristics

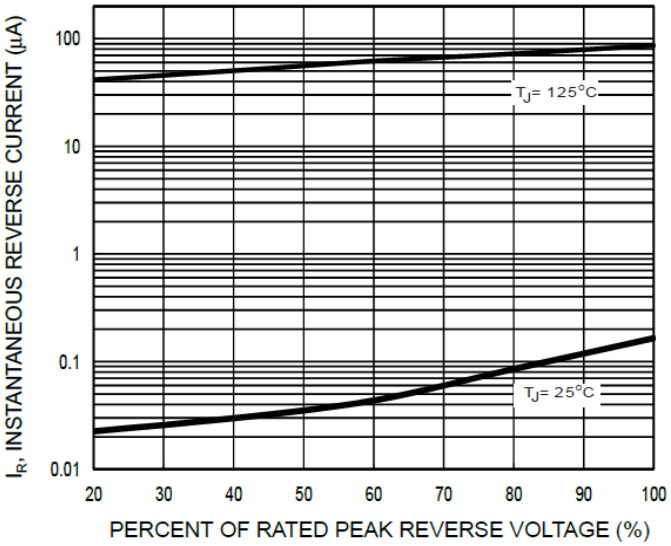


Fig. 5 Typical Junction Capacitance

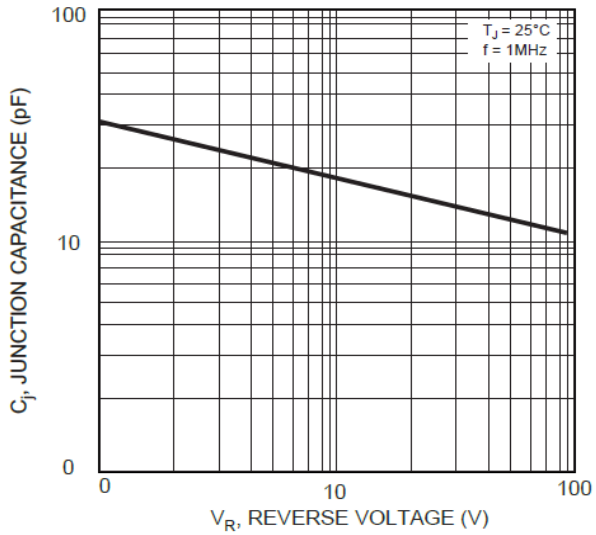
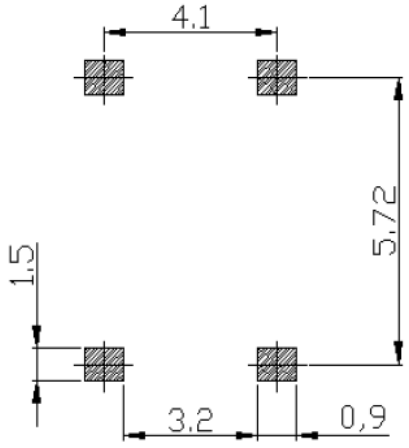


Fig.6 Solder Pad Layout



*Dimensions in millimeters