Elektronische Bauelemente

ABS2U~ABS10U

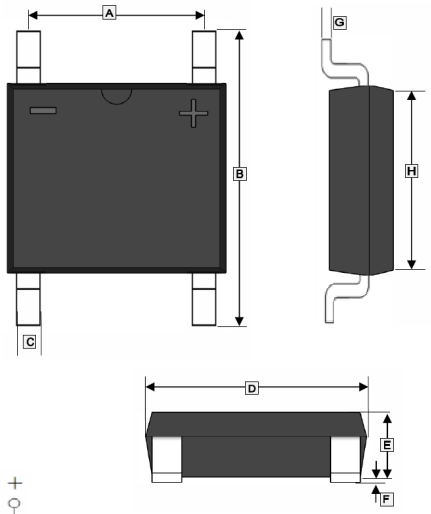
Voltage 200V~1000V
1 Amp Single Phase Surface Mount
Glass Passivated Bridge Rectifier

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

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

ABS

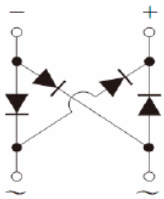


MECHANICAL DATA

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

ORDER INFORMATION

Part Number	Type
ABS2U~ABS10U	Lead (Pb)-free
ABS2U-C~ABS10U-C	Lead (Pb)-free and Halogen-free



	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 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number					Unit
			ABS2U	ABS4U	ABS6U	ABS8U	ABS10U	
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	T_C=100°C	$I_{F(AV)}$	1					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	35					A
Rating for Fusing (t<8.3ms)		I^2t	5.08					A^2s
Forward Voltage Per Element	I_F=0.5A	V_{FM}	0.95					V
	I_F=1A		1					
Peak Reverse Current @Rated DC Blocking Voltage	T_A=25°C	I_R	5					μA
	T_A=125°C		200					
Typical Thermal Resistance Per Leg [1]		$R_{\theta JA}$	62.5					°C/W
		$R_{\theta JL}$	25					
Operating and Storage Temperature Range		T_J, T_{STG}	-55~150					°C

Note:
1. Measured at 1MHz and applied reverse voltage of 4V D.C.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

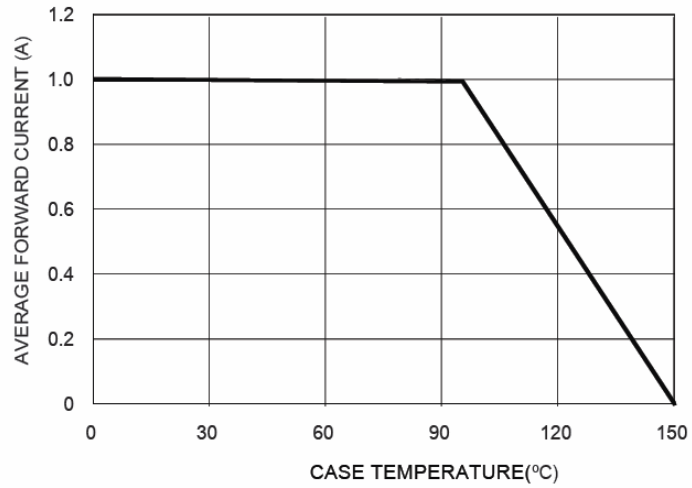

FIG. 2 TYPICAL FORWARD CHARACTERISTIC

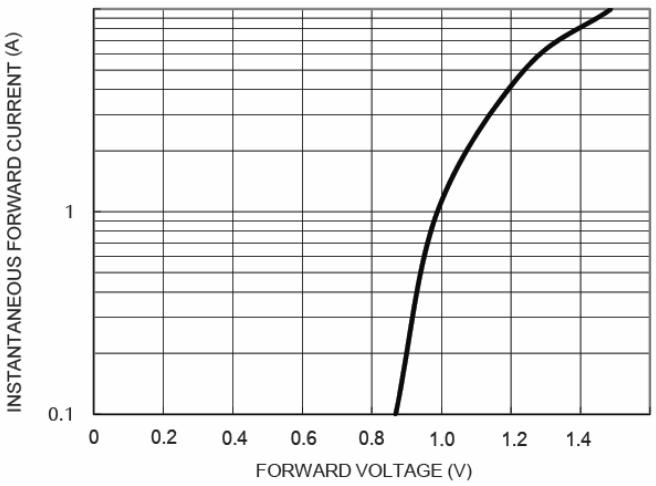

FIG.3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

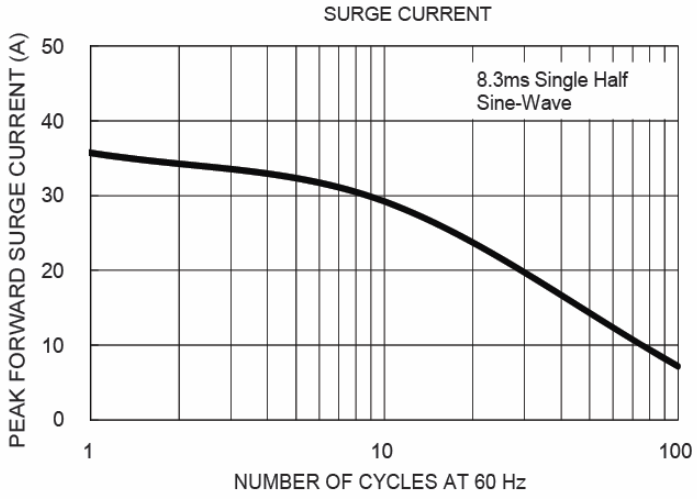

FIG. 4 TYPICAL REVERSE CHARACTERISTICS