

2A, 50V - 800V Glass Passivated Single-Phase Bridge Rectifiers

FEATURES

- Ideal for printed circuit board
- High case dielectric strength
- High surge current capability

MECHANICAL DATA

Meet JESD 201 class 2 whisker test

Polarity: As marked

Weight: 2 g (approximately)

Case: GBL

- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC

Molding compound, UL flammability classification rating 94V-0

Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Part no. with suffix "H" means AEC-Q101 qualified

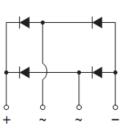
- Halogen-free according to IEC 61249-2-21











		D2SB	D2SB	D2SB	D2SB	D2SB	D2SB	UNIT
PARAMETER	SYMBOL	05	10	20	40	60	80	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	V
Maximum average forward rectified current	I _{F(AV)}	2			Α			
Peak forward surge current, 8.3 ms single half sine- wave superimposed on rated load	I _{FSM}	80					A	
Rating of fusing (t<8.3ms)	l ² t			2	:6			A ² s
Maximum instantaneous forward voltage (Note 1) I _F = 2 A	V _F			1	.1			V
Maximum reverse surrent @ roted V		10						μA
Maximum reverse current @ rated V_R $T_J=125^{\circ}C$	۱ _R	500						
Typical thermal resistance	R _{θJL} R _{θJA}	10 47					°C/W	
Operating junction temperature range	TJ			- 55 to	o +150			°C
Storage temperature range	T _{STG}			- 55 to	o +150			°C

Note 1: Pulse test with PW=300µs, 1% duty cycle



Taiwan Semiconductor

ORDERING INFORMATION						
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING	
D2SBxx (Note 1)	Н	C2	G	GBL	25 / Tube	
		X0		GBL	25 / Tube / Forming	
		D2		GBL	25 / Tube	

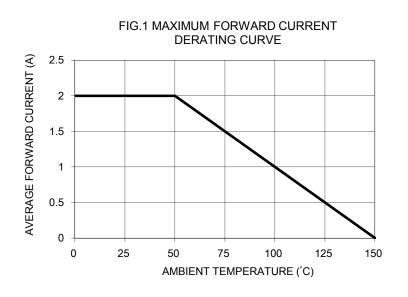
Note 1: "xx" defines voltage from 50V (D2SB05) to 800V (D2SB80)

*: Optional available

EXAMPLE							
PREFERRED P/N PART NO		PART NO. SUFFIX PACKING CODE		PACKING CODE SUFFIX	DESCRIPTION		
D2SB80HC2G	D2SB80	Н	C2	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

 $(T_A=25^{\circ}C \text{ unless otherwise noted})$



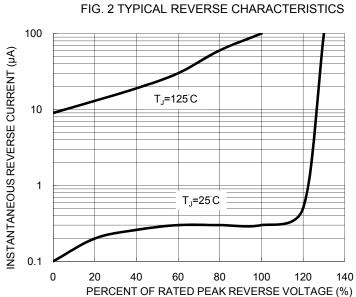


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

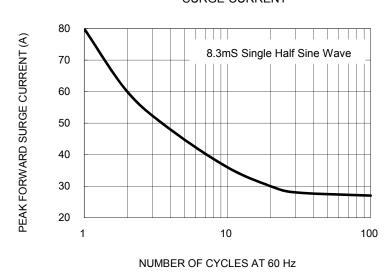
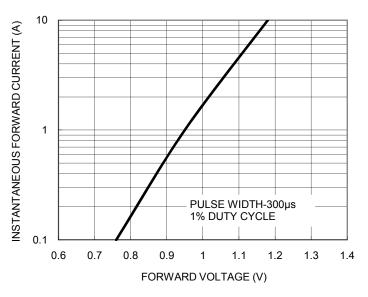
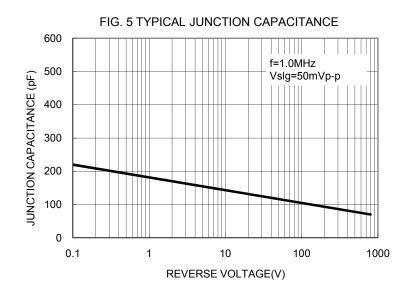


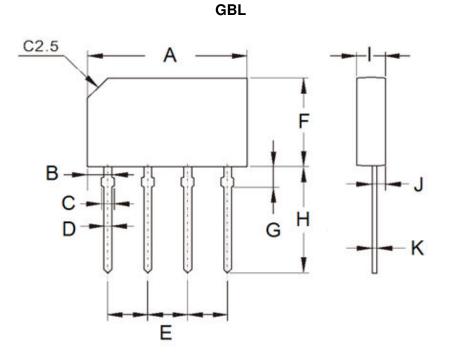
FIG. 4 TYPICAL FORWARD CHARACTERISTICS







PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
	Min Max		Min	Max	
А	19.70	20.30	0.776	0.799	
В	2.30	2.70	0.091	0.106	
С	1.30	2.00	0.051	0.079	
D	0.90	1.10	0.035	0.043	
E	4.80	5.20	0.189	0.205	
F	10.70	11.30	0.421	0.445	
G	2.30	2.70	0.091	0.106	
Н	13.00	14.00	0.512	0.551	
I	3.30	3.70	0.130	0.146	
J	0.80	1.20	0.031	0.047	
К	0.40	0.60	0.016	0.024	

MARKING DIAGRAM



- = Specific Device Code
- = Green Compound
- = Date Code
- = Factory Code



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