

Bridge Rectifiers Reverse Voltage-1000v Forward current-3A

Features

Glass passivated chip
High surge current capability
Ldeal for surface mounted applications
Low power loss, high efficiency
Plastic Case Material has UL Flammability

Mechanical Data

Package: DBS

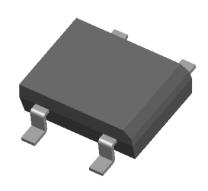
Terminals:Tin Plated leads, solderable per

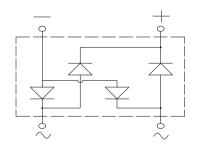
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25° Unless otherwise specified)

Type Number	SYMBOL	DB307S	Umit	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V	
Maximum RMS Voltage	V _{RMS}	700	V	
Maximum DC Blocking Voltage	V _{DC}	1000	V	
Maximum Average Forward Rectified Current at TL = 100 ℃	IO _(AV)	3.0	А	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	80.0	А	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	II OW	160.0	А	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	26.6	A ² S	
Maximum Forward Voltage at 3.0A DC	V_{FM}	1.1	V	
Maximum Reverse Current TA = 25℃	IR	5	uA	
at Rated DC Blocking Voltage TA = 100° C	IK	100		
Typical Thermal Resistance	R_{QJa}	75.0	°C/W	
Operating Junction Temperature Range	T _J	55to+150	$^{\circ}$	
Storage Temperature Range	T _{STG}	55to+150	$^{\circ}$	



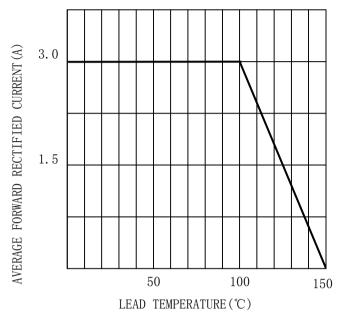


FIG. 2TYPICAL FORWARD CHARACTERISTICS

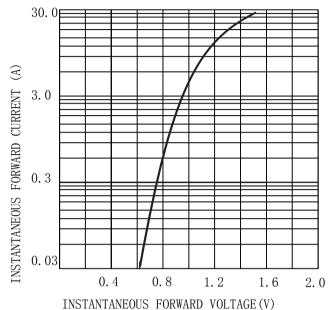


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

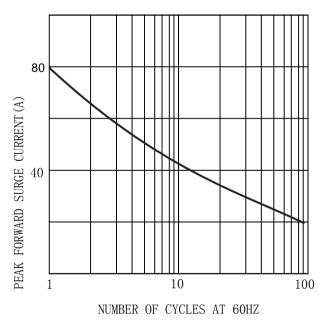
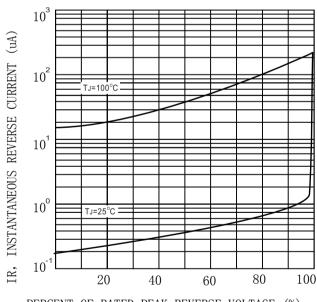


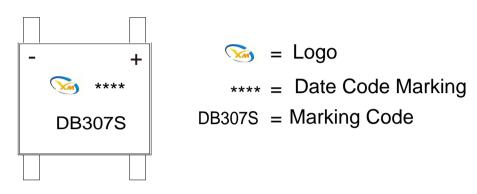
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



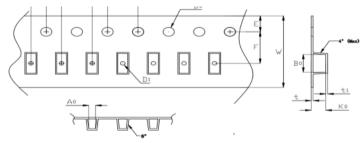
MARKING INFORMATION



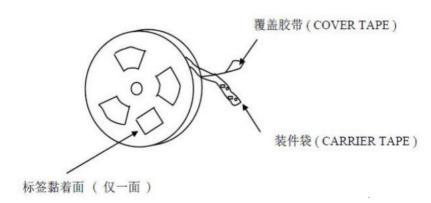
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing

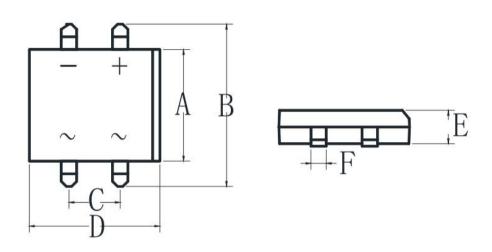


Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	w	t1	Exiplain
DBS	Anti-static	8.70± 0.10	10.41±0.10	3.30± 0.10	4.00± 0.10	16.0± 0.30	0.25± 0.05	



DEVICE	Tape	13"Reel			
	width	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	
DBS	16mm	1500	18	27000	

Outline Dimensions



DBS					
DIM	INC HES		MM		
	MIN	MAX	MIN	MAX	
A	0.24	0.26	6. 10	6.50	
В	0.37	0.39	9.50	9.90	
С	0. 19	0.20	4.80	5. 20	
D	0.31	0.33	7. 95	8.35	
Е	0.09	0.11	2. 30	2.70	
F	0.04	0.05	0.90	1.20	



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