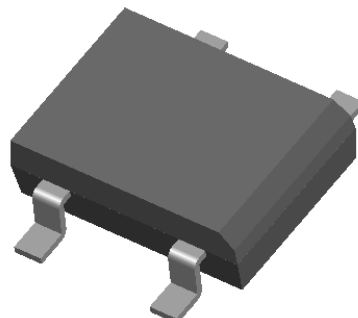




Bridge Rectifiers
Reverse Voltage-1000v
Forward current-3A

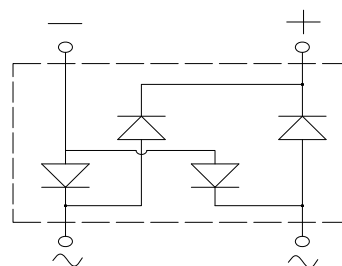
Features

Glass passivated chip
High surge current capability
Ideal 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°C Unless otherwise specified)

Type Number	SYMBOL	DB307S	Unit
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 $T_L = 100^\circ\text{C}$	$I_{O(AV)}$	3.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	80.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25^\circ\text{C}$		160.0	A
Current squared time @1ms≤t≤8.3ms $T_j=25^\circ\text{C}$, Rating of per diode	I^2t	26.6	A ² S
Maximum Forward Voltage at 3.0A DC	V_{FM}	1.1	V
Maximum Reverse Current $T_A = 25^\circ\text{C}$	IR	5	uA
at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$		100	
Typical Thermal Resistance	R_{QJa}	75.0	°C/W
Operating Junction Temperature Range	T_J	—55to+150	°C
Storage Temperature Range	T_{STG}	—55to+150	°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

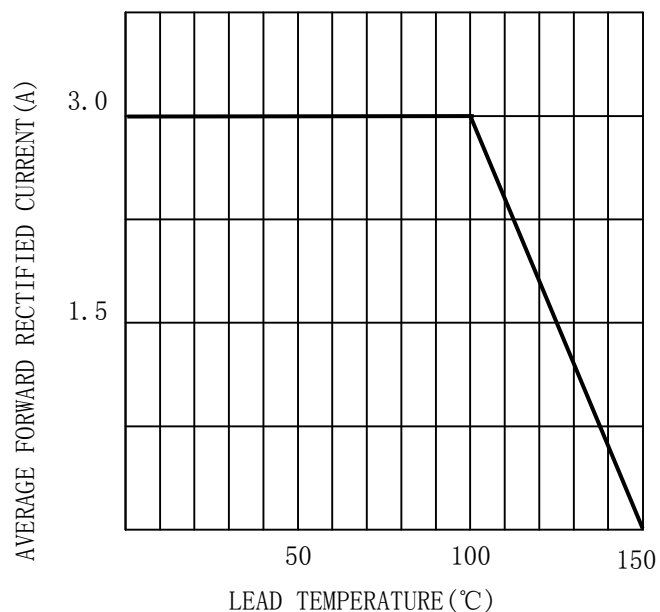


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

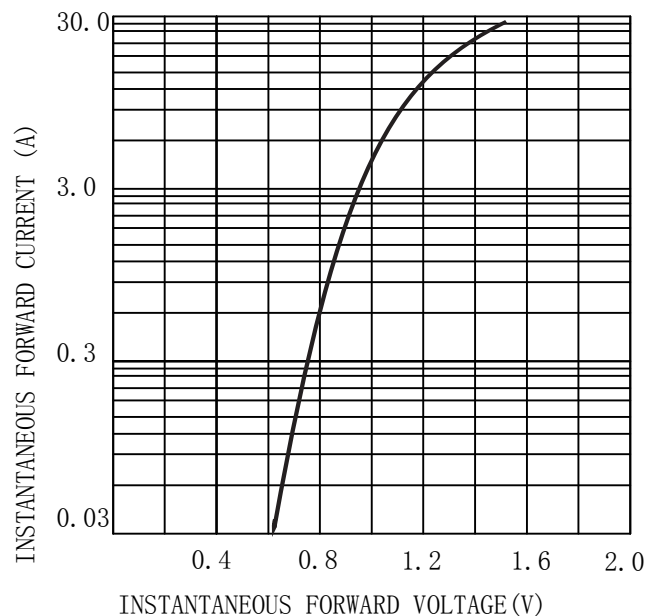


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

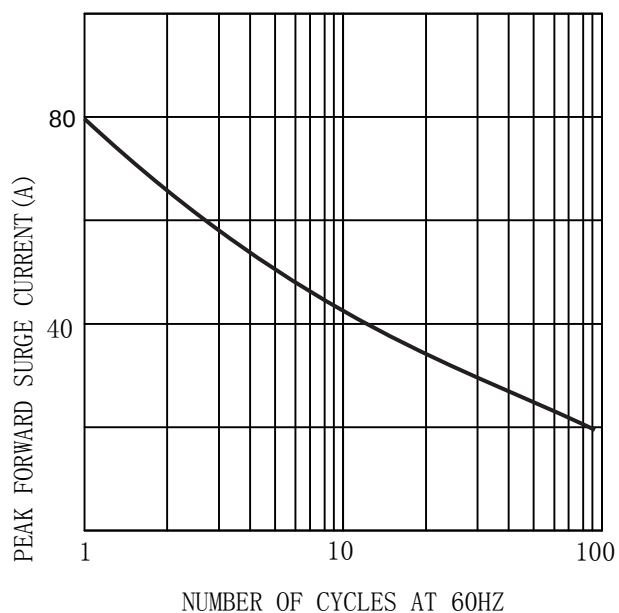
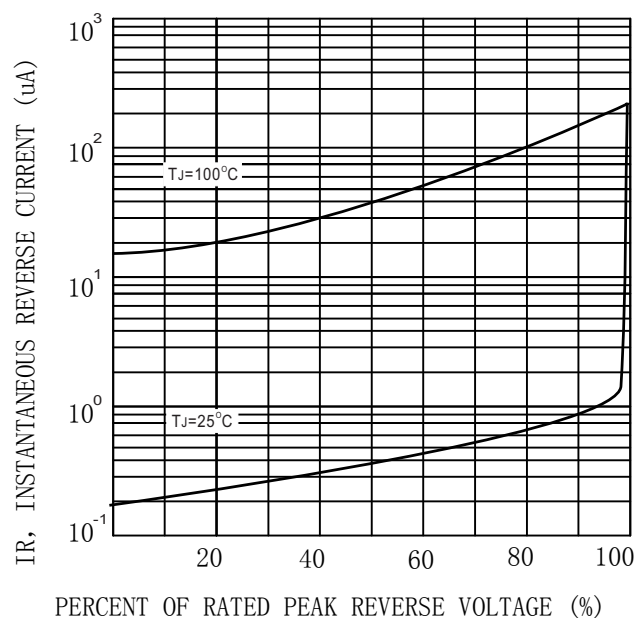


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



= Logo

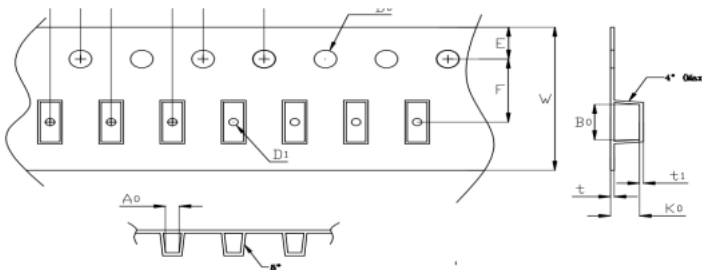
***** = Date Code Marking

DB307S = Marking Code

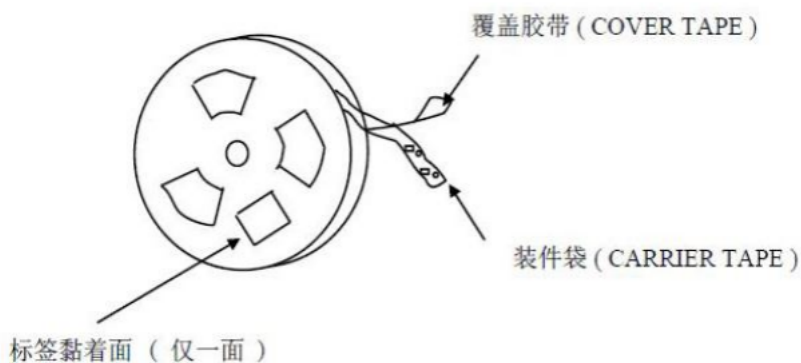
Print according to customer request

PACKING REQUIRMENTS

- Carrier tape packing



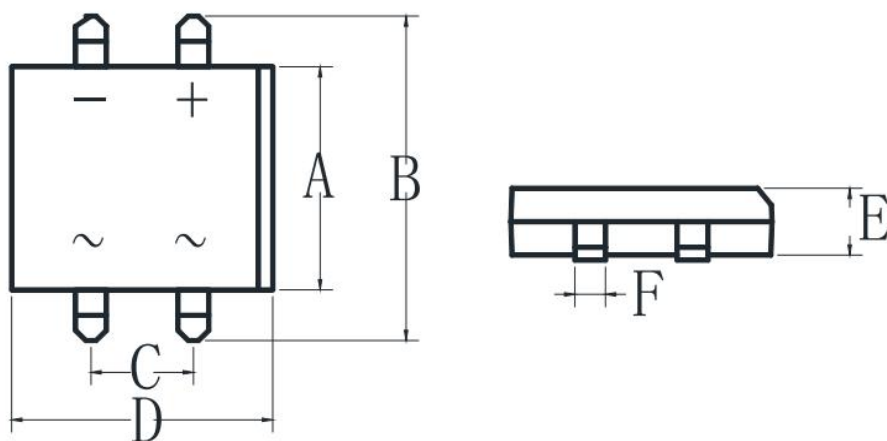
Specifications	Carrier tape type	Ao	Bo	Ko	Po	W	t1	Explain
DBS	Anti-static	8.70± 0.10	10.41±0.10	3.30± 0.10	4.00± 0.10	16.0± 0.30	0.25± 0.05	



DEVICE TYPE	Tape width	13"Reel		
		Q'TY/REEL (pcs)	BOX/CARTOON	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
B	0.37	0.39	9.50	9.90
C	0.19	0.20	4.80	5.20
D	0.31	0.33	7.95	8.35
E	0.09	0.11	2.30	2.70
F	0.04	0.05	0.90	1.20



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