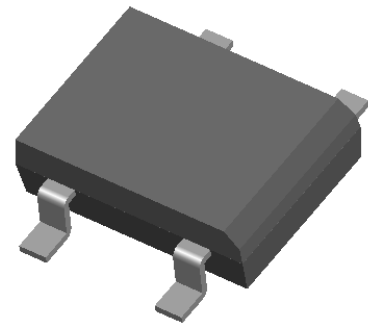




**Bridge Rectifiers**  
**Reverse Voltage-1000v**  
**Forward current-1A**

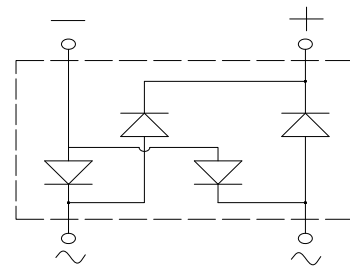
**Features**

- 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	DB107S	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 °C	$I_{O(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	30.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		60.0	A
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	$I^2t$	3.7	A <sup>2</sup> S
Maximum Forward Voltage at 1.0A DC	$V_{FM}$	1.1	V
Maximum Reverse Current TA = 25°C	IR	5	uA
at Rated DC Blocking Voltage TA = 100°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

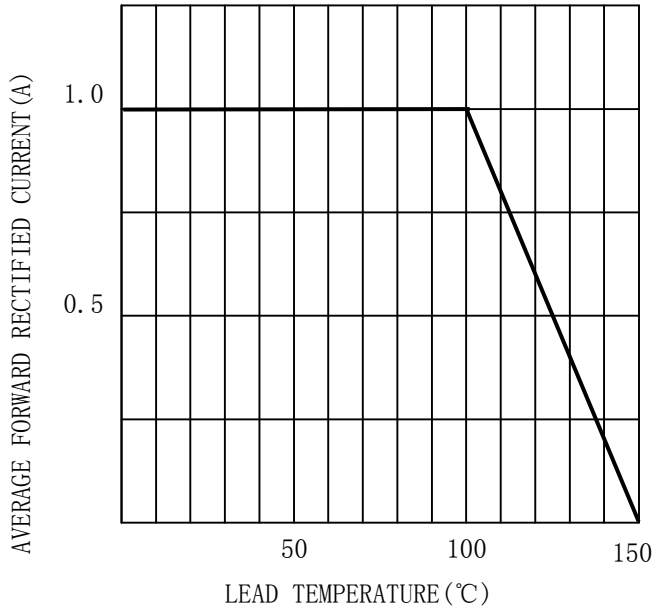


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

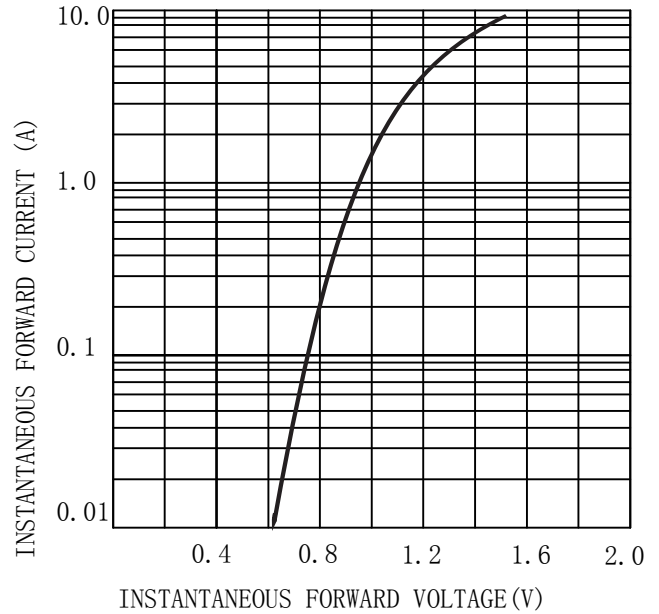


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

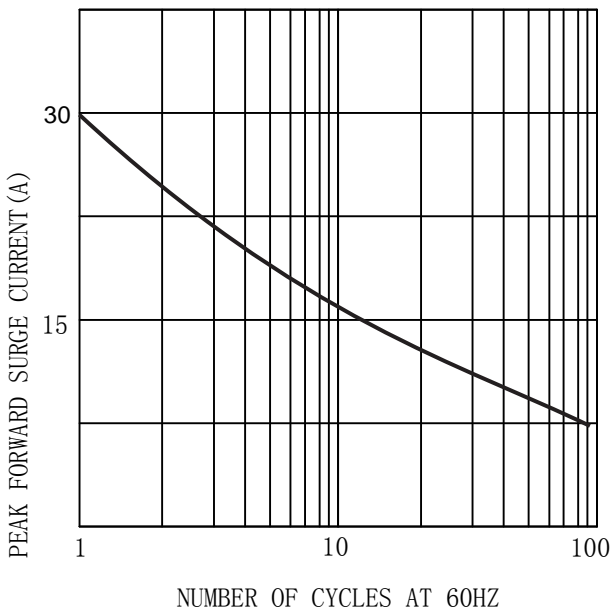
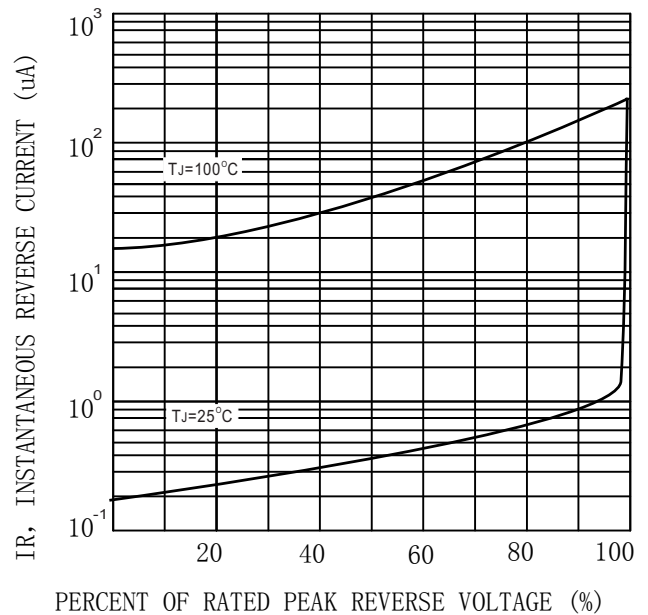
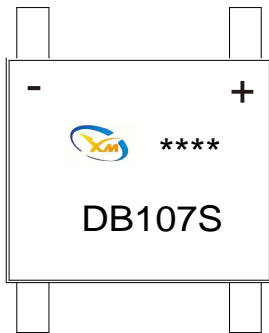


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION



= Logo

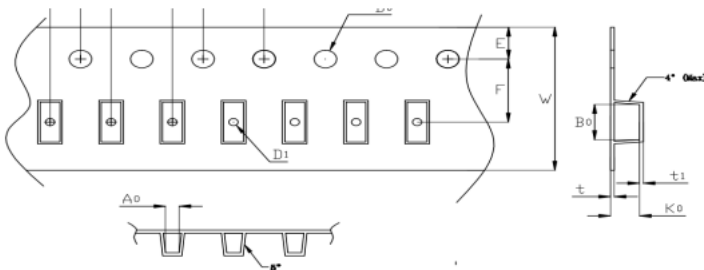
\*\*\*\* = Date Code Marking

DB107S = Marking Code

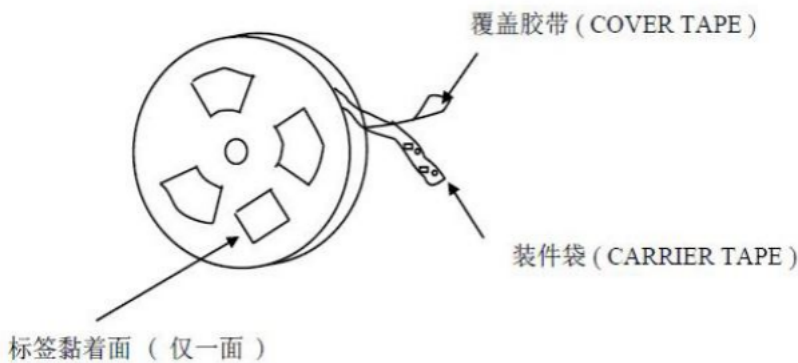
Print according to customer request

## PACKING REQUIRMENTS

- Carrier tape packing



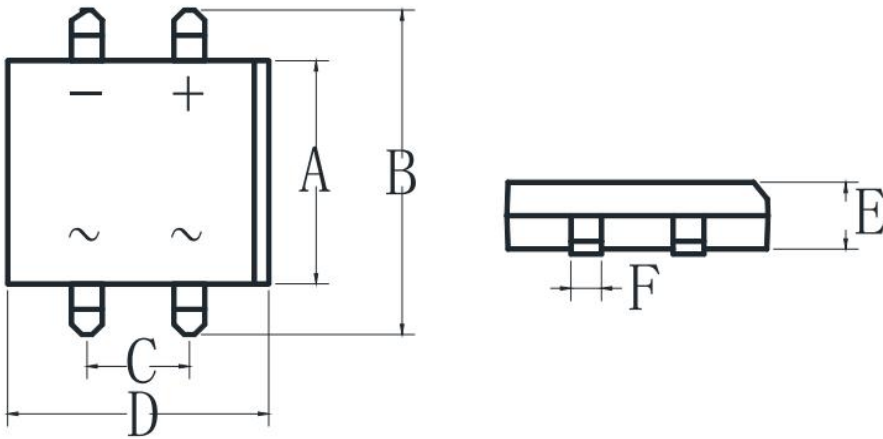
Specifications	Carrier tape type	Ao	Bo	Ko	Po	W	t1	Explain
DBS	Anti-static	8.70± 0.10	10.41±0.10	3.30± 0.10	4.00± 0.10	16.0± 0.30	0.25± 0.05	



DEVICE TYPE	Tape width	13" Reel		
		Q'TY/REEL (pcs)	BOX/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
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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