DB101S THRU DB107S

DBS Plastic-Encapsulate Bridge Rectifier

Features

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique

Reverse Voltage
50-1000 V

Forward Current
1.0 A max

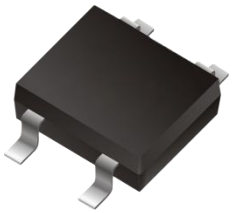
Applications

- General purpose use in AC/DC bridge full wave rectification

Mechanical Data

- Case：DBS
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant,Solder plated, solderable per MIL-STD-750,Method 2026

Appearance Image



Marking

- DB1xxS(01~07)

Maximum Ratings @ Ta = 25℃ unless otherwise noted

PARAMETER	SYMBOL	UNIT	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S
Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Maximum average output current@60Hz sine wave, resistance load	$I_{F(AV)}$	A	1.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	40						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	80						
Current squared time @1ms≤t<8.3ms Tj=25℃，Rating of per diode	I^2t	A^2S	6.64						
Storage temperature	T_{stg}	℃	-55～+150						
Junction temperature	T_j	℃	-55～+150						

Electrical Characteristics @ Ta = 25℃ unless otherwise noted

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S
Maximum instantaneous forward voltage	I_F=0.5A	V_F	V	1.0						
Maximum DC reverse currentat rated DC blocking voltage	V_R=V_{DC}, Tj=25℃	I_R	μA	5						
	V_R=V_{DC}, Tj=100℃	I_R		100						

Characteristic Curve (Typical)

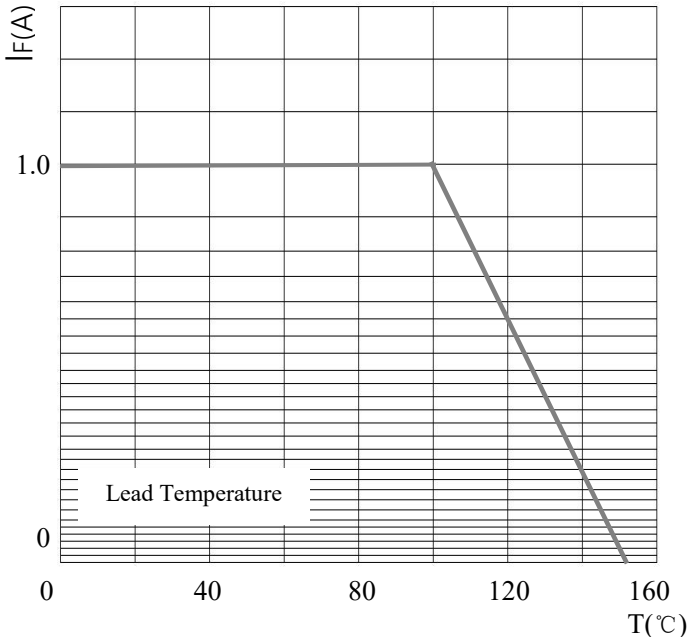


FIG1.Derating Curve For Output Rectified Current

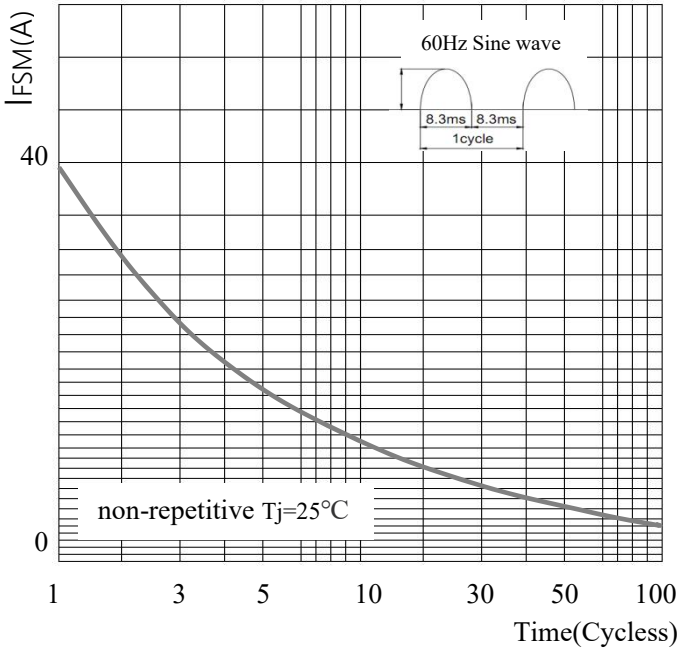


FIG2. Surge Forward Current Capability

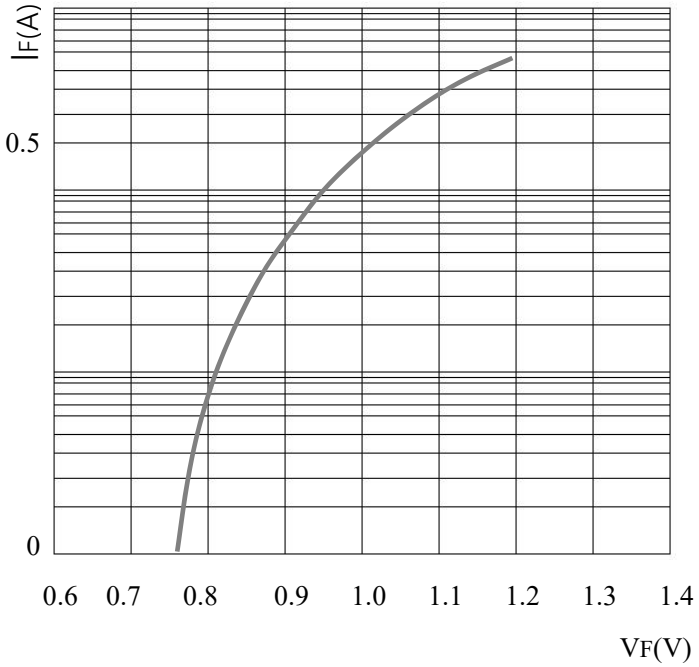


FIG3.Typical Forward Characteristics

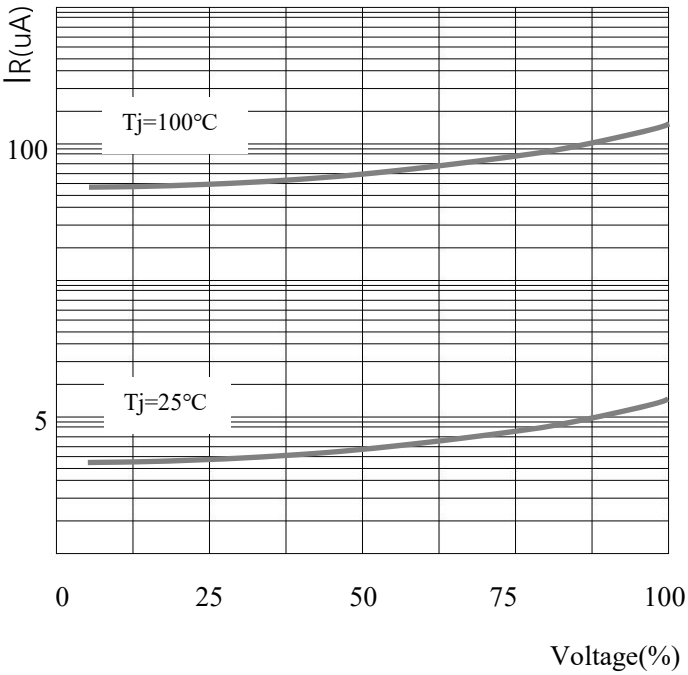
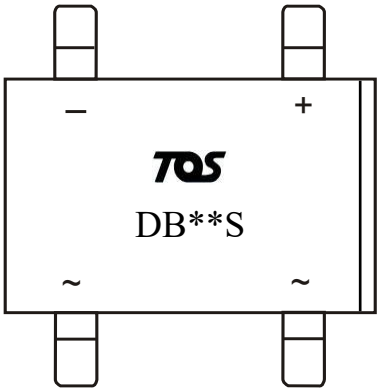


FIG4.Typical Reverse Characteristics

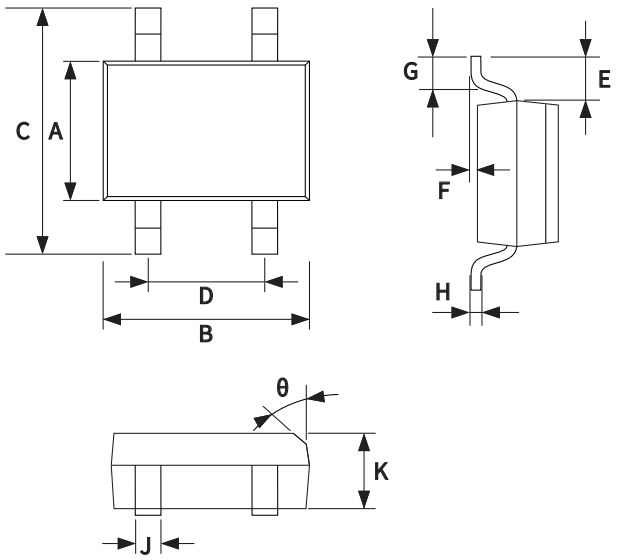
Marking and packet information



DB***S: Product Type Code : Brand Loge

Packaging information	
Reel	1500PCS
Carton	27000PCS
Rell Size	13"

DBS Package outline dimensions



Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	6.20	6.50	0.244	0.256
B	8.13	8.51	0.320	0.335
C	9.60	10.30	0.378	0.406
D	5.00	5.20	0.197	0.205
E	1.80	2.10	0.071	0.083
F	0.08	0.33	0.003	0.013
G	1.0	1.5	0.039	0.059
H	0.18	0.22	0.007	0.009
J	1.02	1.20	0.040	0.047
K	2.80	3.30	0.110	0.130
θ	-	45°	-	45°

Notice

XILONG reserves the right to make modifications,enhancements,improvements,corrections or other changes without further notice to any product herein.
xilong does not assume any liability arising out of the application or use of any product described herein.