

DBS Plastic-Encapsulate Bridge Rectifier

Features

- Ideal for printed circuit board
- Small size, simple installation
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260/10 seconds at 5lbs., (2.3kg) tension

Applications

General purpose 1 phase Bridgerectifier applications

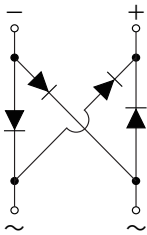
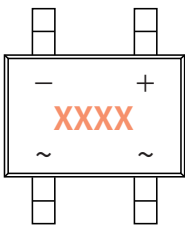
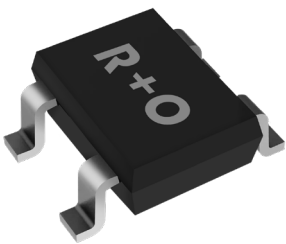
Mechanical Data

- Case: DBS
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Cathode line denotes the cathode end

Function Diagram

Reverse Voltage
50-1000 V
Forward Current
2 Ampere

DBS



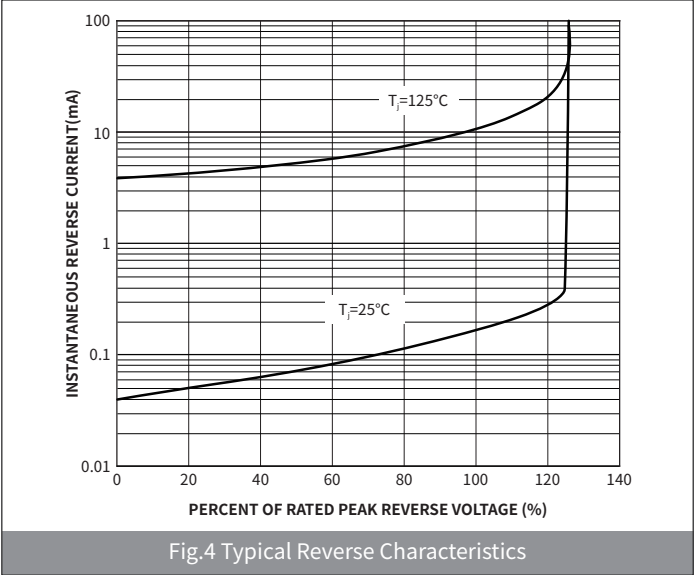
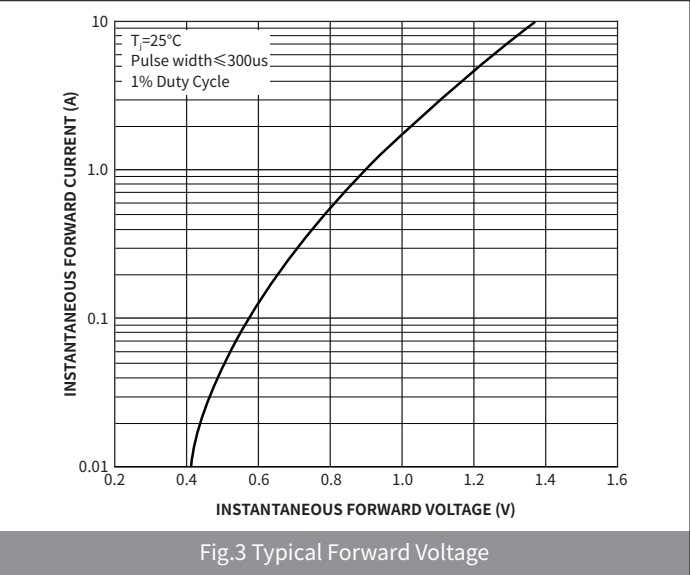
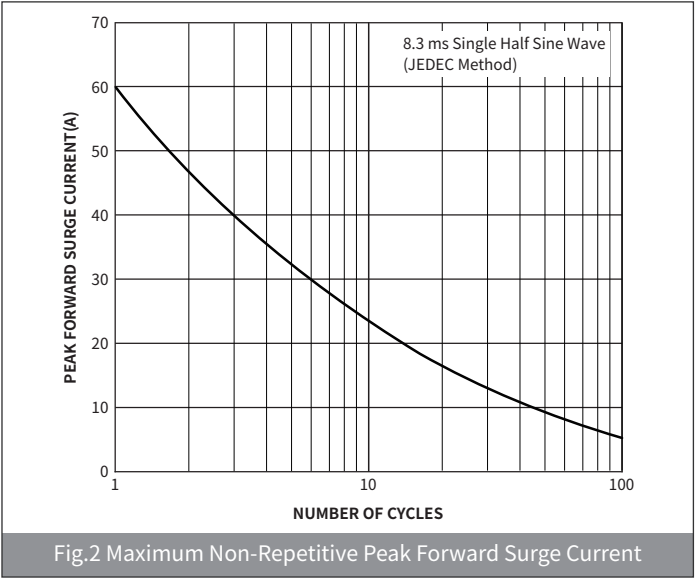
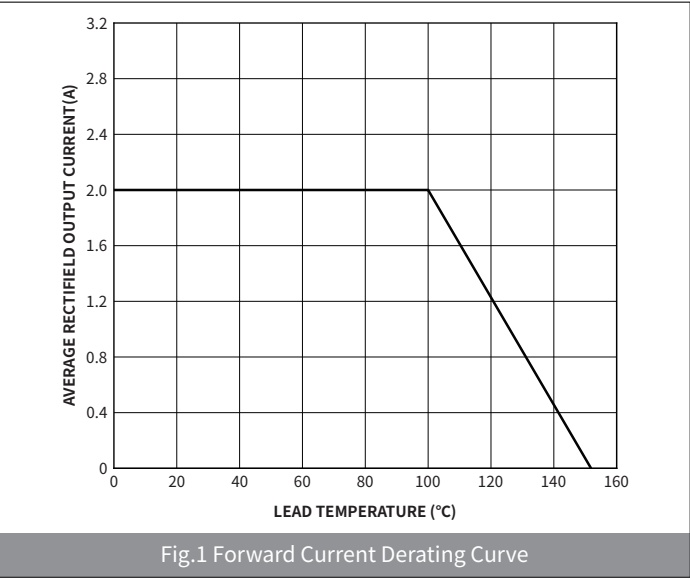
Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S
Device marking code			DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S
Maximum 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 Forward Rectified Current @60Hz sinewave, Resistance load,TL (Fig.1)	$I_{F(AV)}$	A	2.0						
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I_{FSM}	A	60						
Rating for fusing (t=8.3ms, Ta=25 °C)	I^2t	A ² S	14.9						
Storage temperature	T_{stg}	°C	-55 ~ +150						
Junction temperature	T_j	°C	-55 ~ +150						
Typical Thermal Resistance	$R_{\theta J-A}$	°C /W	68						
	$R_{\theta J-L}$	°C /W	15						

● Electrical Characteristics (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S
Maximum instantaneous forward voltage	$I_F=2.0A$	V_F	V	1.1						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_A=25^{\circ}C$	I_{R1}	μA	5.0						
	$V_R=V_{DC}, T_A=100^{\circ}C$	I_{R2}		500						
Typical junction capacitance	4.0V DC, 1MHz	C_J	pF	25						

● Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



DB201S THRU DB207S

DBS 2.0 AMP Plastic-Encapsulate Bridge Rectifier

Ordering Information

PACKAGE	PACKAGE CODE	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
DBS	R2	1500	3000	21000	11"

Package Outline Dimensions (DBS)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	6.20	6.50	0.244	0.256
B	7.95	8.35	0.313	0.329
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	1.13	1.43	0.044	0.056
H	0.15	0.25	0.006	0.010
J	0.88	1.14	0.035	0.045
K	2.20	2.5	0.087	0.098
θ	-	45°	-	45°

Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
M	8.68	8.78	0.342	0.346
N	5.07	5.17	0.200	0.204
Y	2.17	2.27	0.085	0.089
X	1.15	1.25	0.045	0.049