

1.5A GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 V

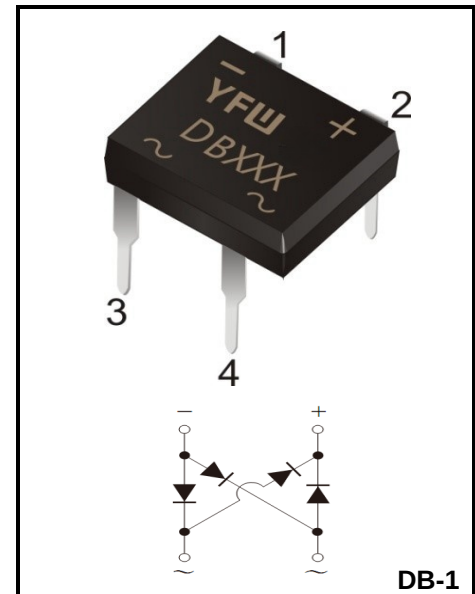
Forward Current – 1.5A

FEATURES

- ◆High current capability
- ◆Low forward voltage drop
- ◆Glass Passivated Chip Junction
- ◆Low power loss, high efficiency
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- ◆Case: DB-1
- ◆Terminals: Solderable per MIL-STD-202, Method 208
- ◆Approx. Weight: 0.4g /0.02oz



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	DB152	DB153	DB154	DB155	DB156	DB157	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current	$I_{(AV)}$	1.5						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	I_{FSM}	55						A
Forward Voltage per element @ $I_F=1.5A$ and 25°C	V_F	1.1						V
Maximum DC Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=125^{\circ}C$	I_R	5 500						μA
Typical Junction Capacitance ^(Note1)	C_j	25						pF
Typical Thermal Resistance ^(Note2)	$R_{\theta JA}/ R_{\theta JC}$	40/15						°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150						°C

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) Mounted on glass epoxy PCB board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Ratings And Characteristic Curves

Fig.1 Average Rectified Output Current Derating Curve

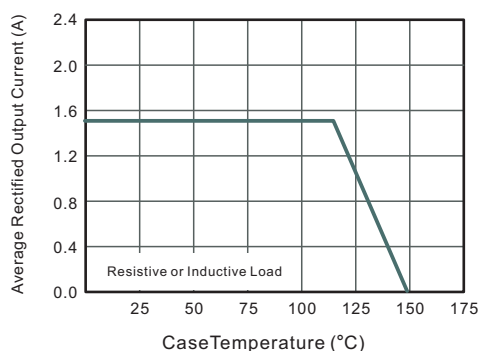


Fig.2 Typical Reverse Characteristics

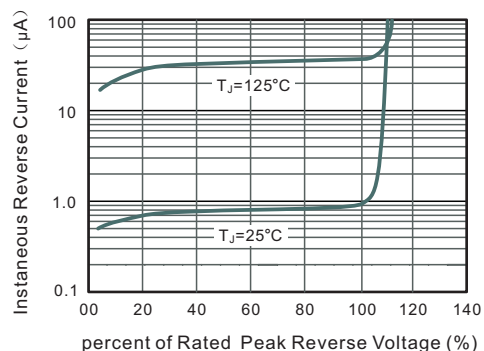


Fig.3 Typical Instantaneous Forward Characteristics

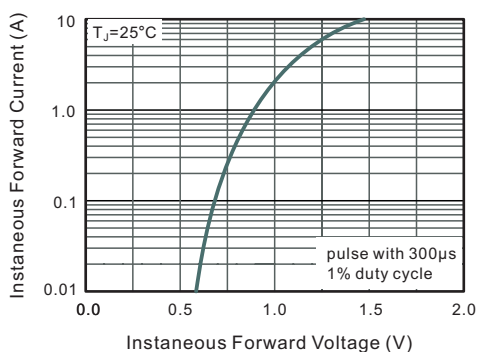


Fig.4 Typical Junction Capacitance

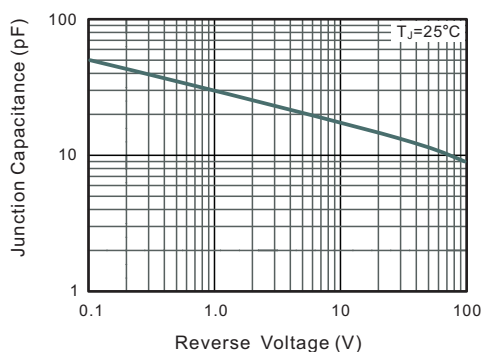
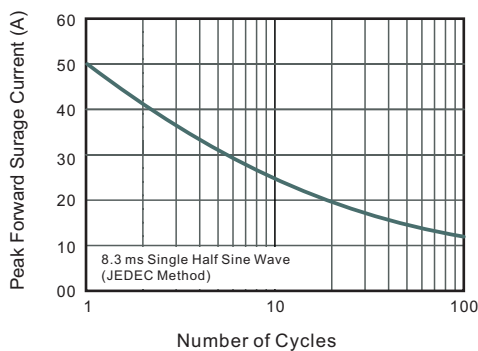
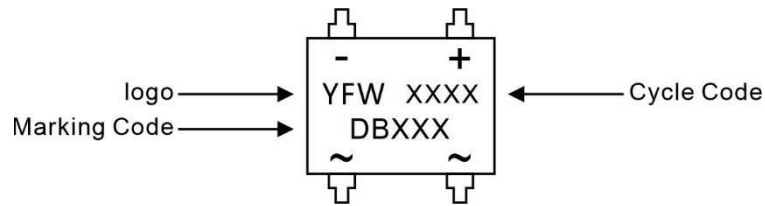


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Marking Diagram



Ordering information

Package	Packing Description	Packing Quantity
DB-1	50PCS/Tube	2500PCS/Box 10000PCS/Carton

Package Dimensions

DB-1

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	6.20	6.50	0.244	0.256
B	7.60	8.90	0.299	0.350
C	5.00	5.20	0.197	0.205
D	8.13	8.51	0.320	0.335
E	0.46	0.58	0.018	0.023
F	2.80	3.30	0.110	0.130
G	0.22	0.33	0.009	0.013
H	3.81	4.69	0.150	0.185
I	1.39	1.90	0.055	0.075
J	1.27	2.03	0.05	0.080
K	0.89	1.14	0.035	0.045
L	8.00	8.51	0.315	0.335

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