

BRIDGE RECTIFIERS

Voltage Range - 50 to 1000 Volts Current - 1.0 Amperes

Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0

Mechanical Data

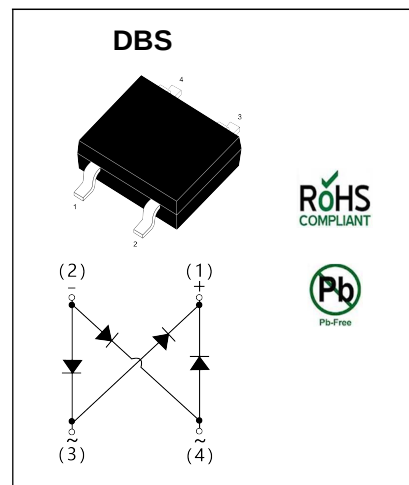
- Case: Molded plastic body
- Polarity:As marked
- Mounting Position: Any
- Weight: 0.02 ounces,0.38 grams

Specification

Maximum Rating And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

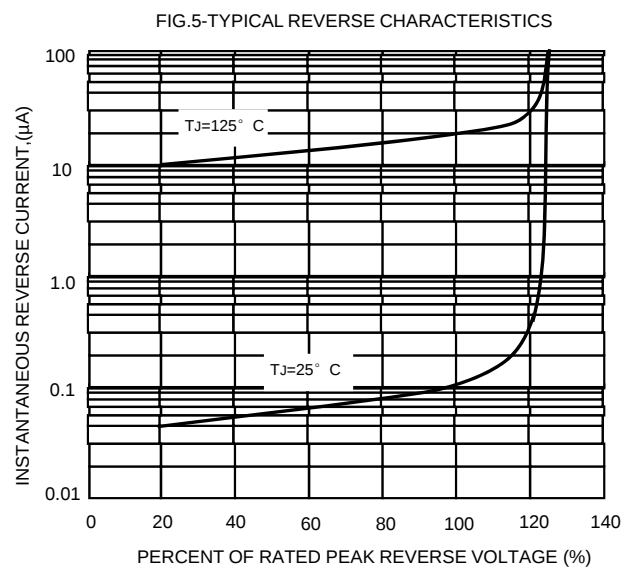
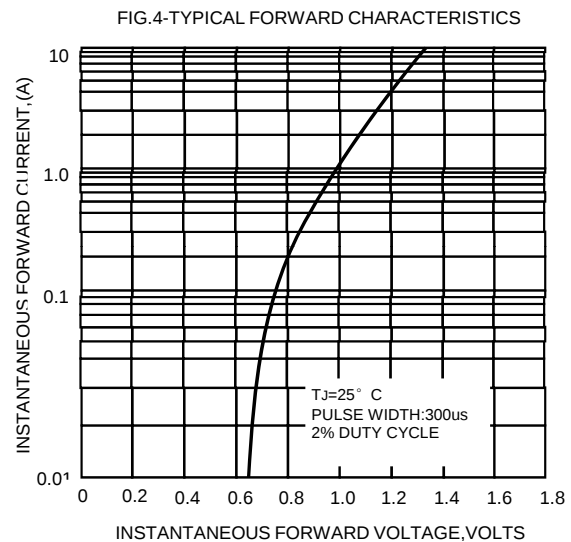
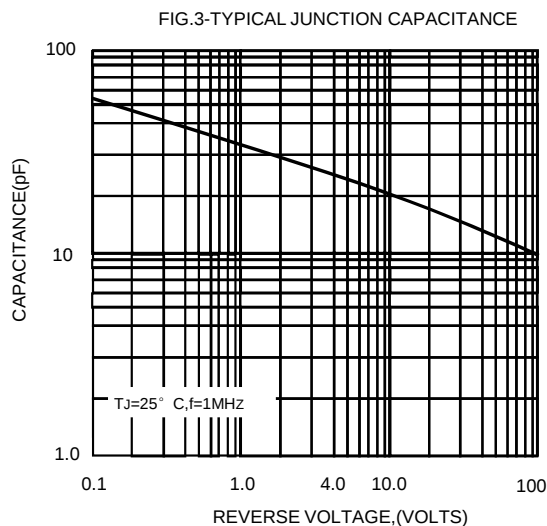
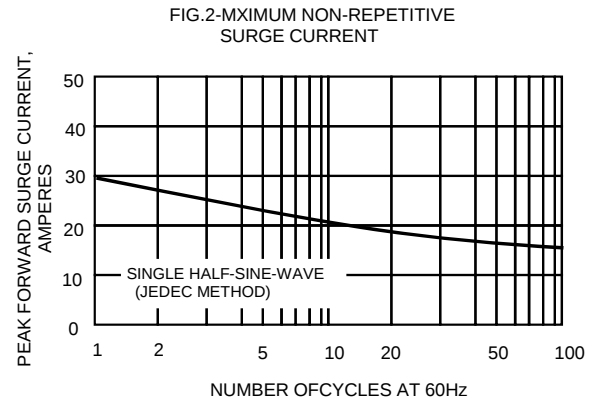
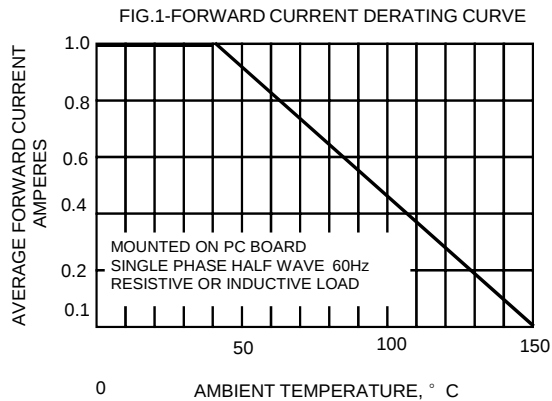


CHARACTERISTICS	SYMBOL	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A=40^{\circ}C$	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	30							A
Maximum Forward Voltage at 1.0A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_J=25^{\circ}C$ @ $T_J=125^{\circ}C$	I_R	10 500							μA
$I^2 t$ Rating for Fusing($t \leq 8.3ms$)	$I^2 t$	10.4							$A^2 s$
Typical Junction Capacitance Per Element(Note1)	C_J	25							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	40							$^{\circ}C/W$
Operating Temperature Range	T_J	-55 to +150							$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}C$

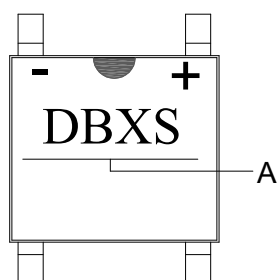
Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC

2. Thermal resistance from junction to ambient mounted on P.C.B with 0.5*0.5"(13*13mm)copper pads.

Ratings and characteristic curves DB101S thru DB107S

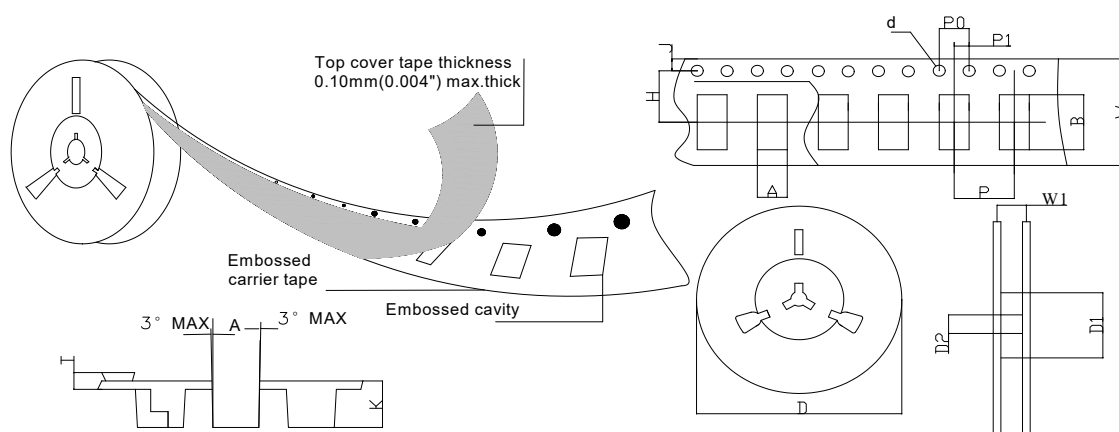


1、Marking



SYMBOL	Explanation
A	Product Name

2、Packaging



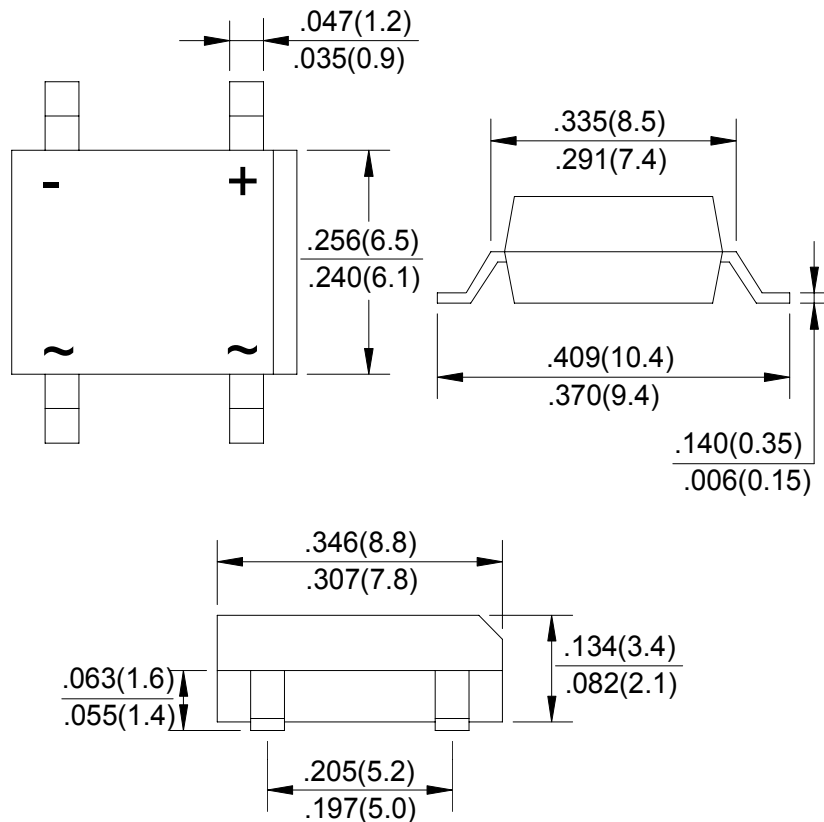
SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE
ITEM	SYM BOL	DBS	ITEM	SYM BOL	DBS
Carrier width	A	8.66(0.340)Max	Carrier depth	K	3.32(0.130)Typ
Carrier length	B	10.5(0.412)Max	Punch hole pitch	P	12.0(0.471)Typ
Sprocket hole	d	ø1.55(0.061)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ
Reel outer diameter	D	330.0(13.0)Typ	Embossment center	P1	2.00(0.079)Typ
Reel inner diameter	D1	50.0(2.913)Min	Overall tape thickness	T	0.30(0.012)Typ
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	16.0(0.622)Typ
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	19.0(0.745)Min
Punch hole position	H	7.50(0.294)Typ			

3、Ordering Information

Part Number	Compliance	Case	Packaging
DBXS	Standard	DBS	1500/Tape & Reel

Dimension

DBS



Dimensions in inches and (millimeters)

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