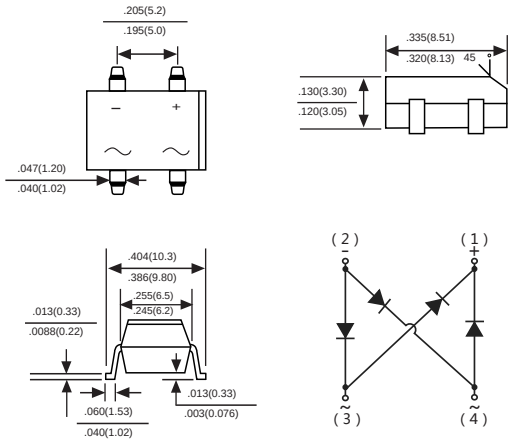
JXND ELECTRONICS CO.,LTD

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS DB201S THRU DB207S

Features

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

DBS



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC DBS Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026

Polarity : Polarity symbol marking on case
Mounting Position : Any
Weight : 0.02 ounce, 0.4 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwisespecified.

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

Parameter	SYMBOLS	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	UNITS
Marking Code		DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	
Maximum repetitive 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 at T_C=40°C	$I_{F(AV)}$	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60							A
Maximum instantaneous forward voltage drop per leg at 1A	V_F	1.1							V
Maximum DC reverse current T_A=25°C at rated DC blocking voltage T_A=100°C	I_R	10 500							μA μA
Operating temperature range	T_J	-55 to +150							°C
storage temperature range	T_{STG}	-55 to +150							°C

NOTES:DBS for surface mount package.

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Ratings And Characteristic Curves

FIG. 1- MAXIMUN DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

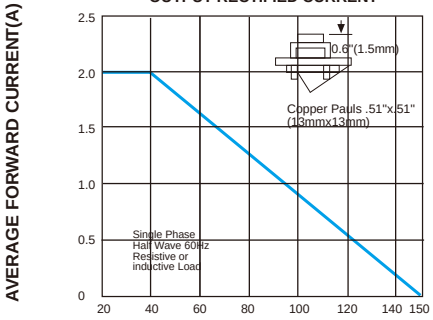

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

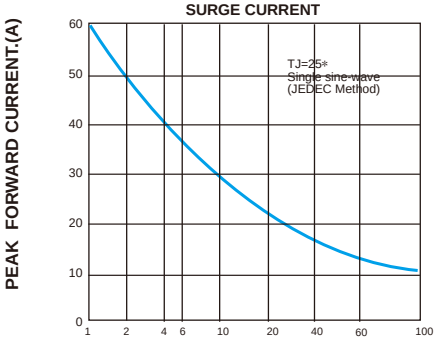

FIG. 3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

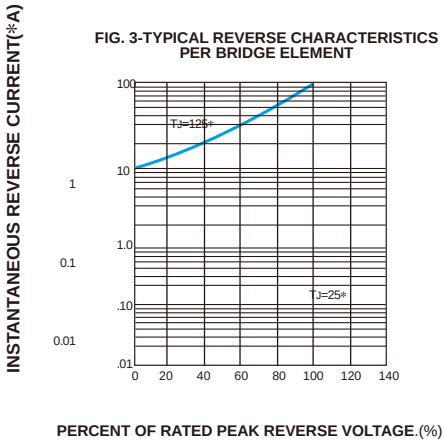

FIG. 4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMNT

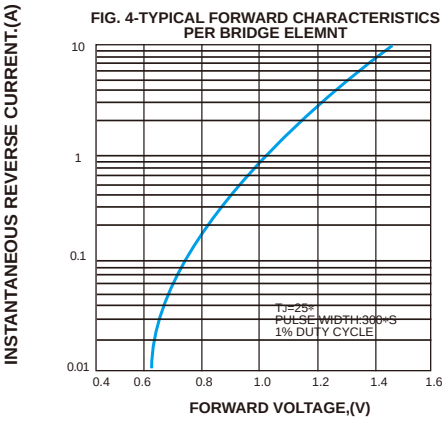

FIG. 3-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT