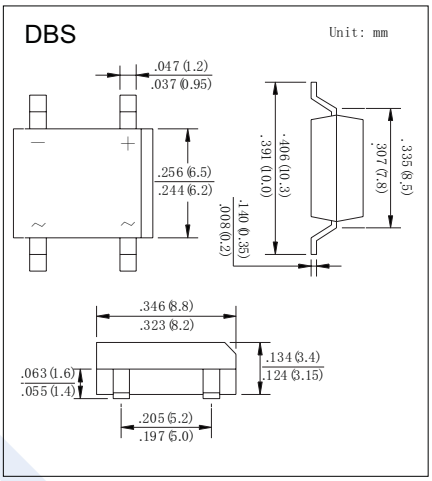
Bridge Rectifier

DB201S~DB207S

■ 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



■ Absolute Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Parameter	Symbol	DB 201S	DB 202S	DB 203S	DB 204S	DB 205S	DB 206S	DB 207S	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	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current @T_A=40℃	$I_{(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC .Method)	I_{FSM}	60							
Maximum Forward Voltage at 2.0A DC	V_F	1.1							V
Maximum DC Reverse Current @T_J=25℃	I_R	10							μA
at rated DC blocking voltage @T_J=125℃		500							
I^2t Rating for Fusing (t<8.3ms)	I^2t	10.4							A^2s
Typical Junction capacitance Per Element(Note1)	C_J	25							pF
Typical thermal resistance(Note2)	R_{thJA}	40							℃/W
Junction Temperature	T_j	150							℃
Storage Temperature	T_{stg}	-55 to 150							

Notes:

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.

■ Marking

NO.	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S
Marking	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S

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■ Typical Characterisitics

FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

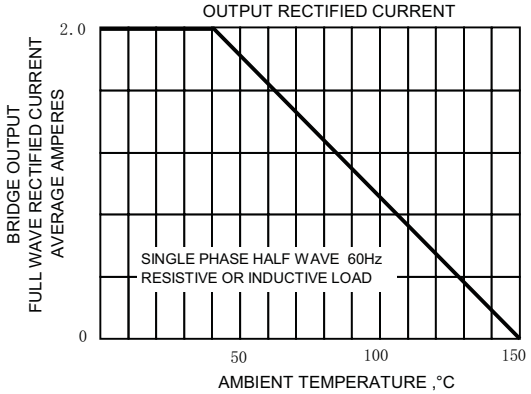

FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

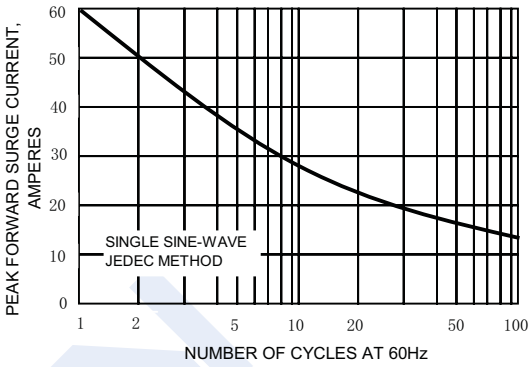

FIG.3-TYPICAL JUNCTION CAPACITANCE

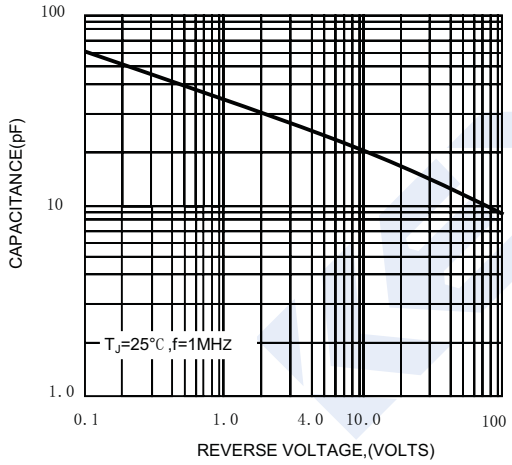

FIG.4-TYPICAL FORWARD CHARACTERISTICS

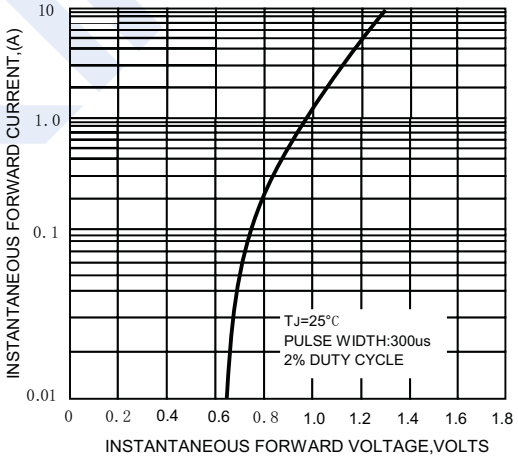

FIG.5-TYPICAL REVERSE CHARACTERISTICS