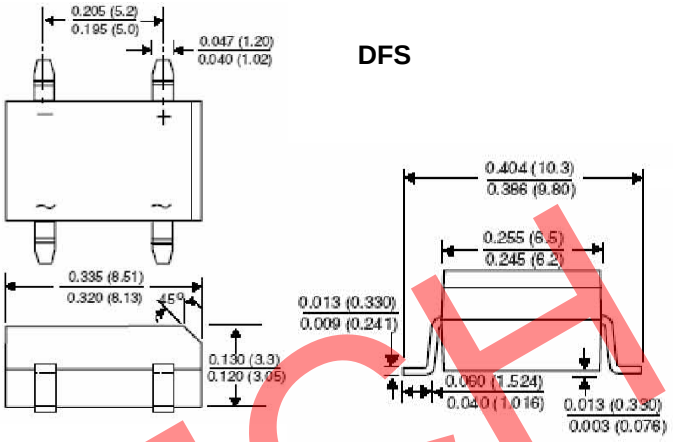
DB201S THRU DB207S

SINGLE-PHASE GLASS PASSIVATED SILICON SURFACE MOUNT BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 V
Forward Current - 2 A

Features

- Ideal for automated placement
- Applicable for automative insertion
- High surge current capability



Mechanical Data

- Case: DFS
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Matte tin plated ldads, solderable per J-STD-002B and JESD22-B102D
- Polarity: As markde on body

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

Parameter	Symbols	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	Units
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 output Rectified Current at T_A = 40 ℃	$I_{F(AV)}$	2							A
Peak Forward Surge Current Single sine -wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	60							A
Maximum Forward Voltage drop per leg at 2 A	V_F	1.2							V
Maximum DC Reverse Current T_A = 25℃ at Rated DC Blocking Voltage per leg T_A = 125℃	I_R	5 500							μA
Typical Junction Capacitance per eiement at 1 MHz, 4 V	C_J	25							pF
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150							℃

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

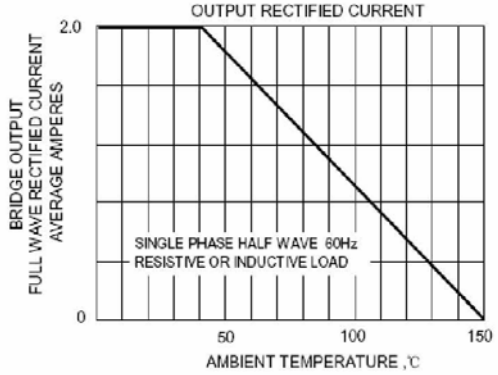


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

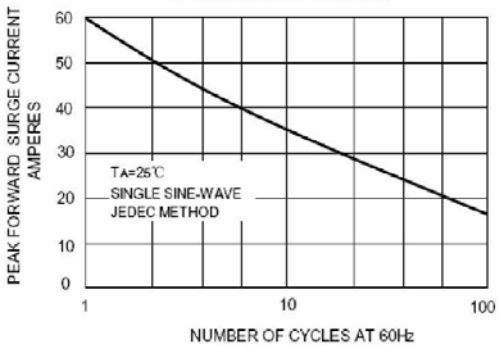


FIG.3-TYPICAL JUNCTION CAPACITANCE

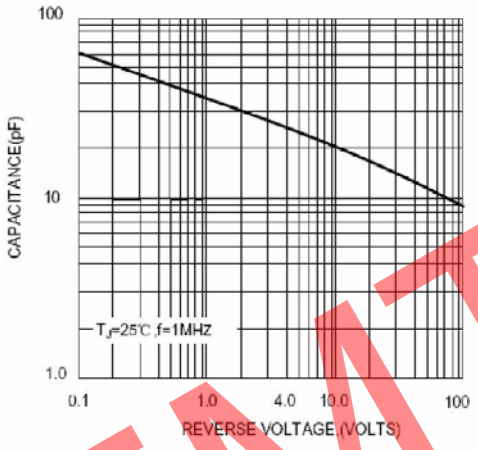


FIG.4-TYPICAL FORWARD CHARACTERISTICS

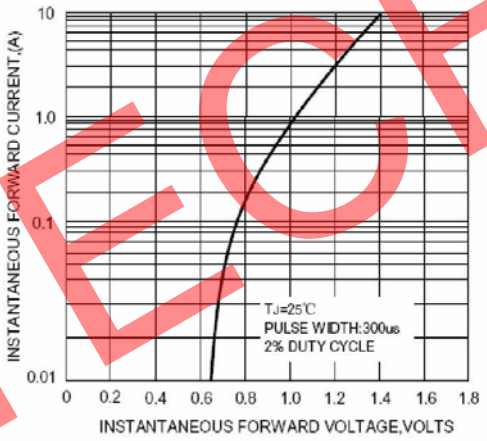


FIG.5-TYPICAL REVERSE CHARACTERISTICS