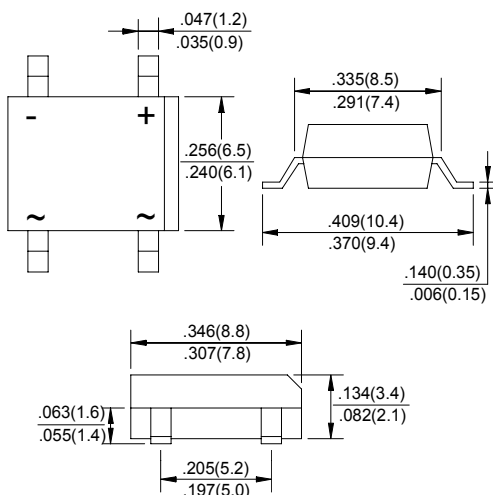


# DB201S THRU DB207S

<b>BRIDGE RECTIFIERS</b>	<b>Voltage Range - 50 to 1000 Volts</b> <b>Current -2.0 Ampere</b>
<p style="text-align: center;"><b>DBS</b></p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>	<p><b>Features</b></p> <ul style="list-style-type: none"> <li>➤ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>➤ Idea for printed circuit board</li> <li>➤ Glass passivated Junction chip</li> <li>➤ Low reverse leakage</li> <li>➤ High forward surge current capability</li> <li>➤ High temperature soldering guaranteed 250°C/10 seconds at terminals</li> </ul> <p><b>Mechanical Data</b></p> <p><b>Case :</b> Molded plastic body</p> <p><b>Terminals :</b> Solder plated, solderable per MIL-STD-750, Method 2026</p> <p><b>Polarity :</b> Polarity symbol marking on body</p> <p><b>Mounting Position :</b> Any</p> <p><b>Weight :</b> 0.0078 ounce, 0.22 grams</p>

## Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. 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
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 $T_L=100^\circ\text{C}$	$I_{(AV)}$	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	60.0							A
Rating for fusing ( $t=8.3\text{ms}$ , $T_a=25^\circ\text{C}$ )	$I_t^2$	14.9							$A_s^2$
Maximum instantaneous forward voltage at 2.0A	$V_F$	1.10							V
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	$I_R$	5.0 500							$\mu\text{A}$
Typical junction capacitance (Note 1)	$C_J$	25.0							pF
Typical thermal resistance	$R_{qJA}$	70.0							$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150							$^\circ\text{C}$

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

# DB201S THRU DB207S

## Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

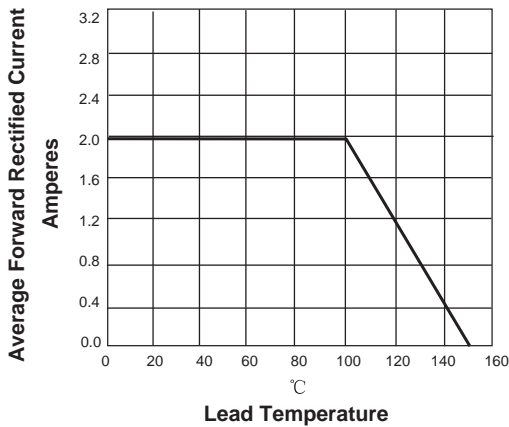


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

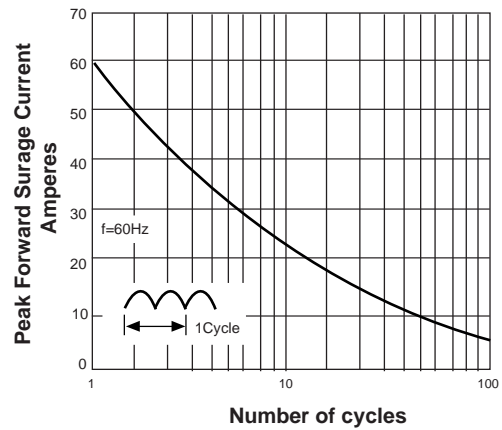


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

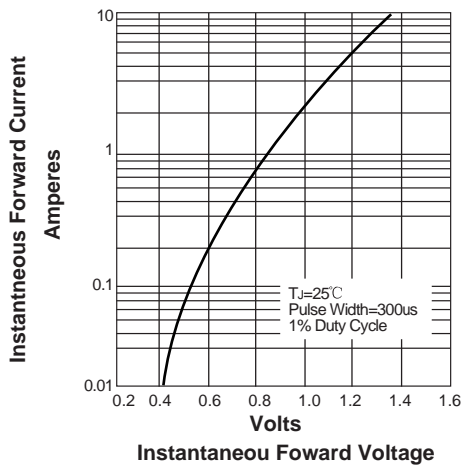


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

