

Features

- Types up to 1000 V V_{RRM}
- Ideal for printed circuit board
- High surge current capability
- High temperature soldering guaranteed: 250°C/ 10 seconds
- Small size, simple installation

Mechanical Data

Case: Molded plastic

Polarity: Polarity symbols marked on body

Mounting position: Any

Terminals: Plated leads, solderable per MIL-STD-202

Method 208 guaranteed

DB Package



Maximum ratings, at $T_J = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	DB101G	DB102G	DB103G	DB104G	Unit
Repetitive peak reverse voltage	V_{RRM}		50	100	200	400	V
RMS reverse voltage	V_{RMS}		35	70	140	280	V
DC blocking voltage	V_{DC}		50	100	200	400	V
Continuous forward current	I_F	$T_C \leq 40\text{ }^{\circ}\text{C}$	1	1	1	1	A
Surge non-repetitive forward current, Half Sine Wave	I_{FSM}	$T_C = 25\text{ }^{\circ}\text{C}$, $t_p = 8.3\text{ ms}$	30	30	30	30	A
Operating temperature	T_J		-65 to 150	-65 to 150	-65 to 150	-65 to 150	$^{\circ}\text{C}$
Storage temperature	T_{stg}		-65 to 150	-65 to 150	-65 to 150	-65 to 150	$^{\circ}\text{C}$

Electrical characteristics, at $T_J = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	DB101G	DB102G	DB103G	DB104G	Unit
Diode forward voltage	V_F	$I_F = 1\text{ A}$, $T_J = 25\text{ }^{\circ}\text{C}$	1.1	1.1	1.1	1.1	V
Reverse current	I_R	$V_R = 50\text{ V}$, $T_J = 25\text{ }^{\circ}\text{C}$	5	5	5	5	μA
		$V_R = 50\text{ V}$, $T_J = 125\text{ }^{\circ}\text{C}$	500	500	500	500	

Thermal characteristics

Thermal resistance, junction - case	$R_{\theta JC}$		20.00	20.00	20.00	20.00	$^{\circ}\text{C/W}$
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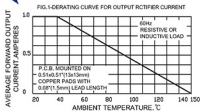
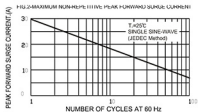


FIG. 3-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

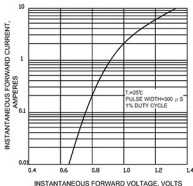


FIG. 4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

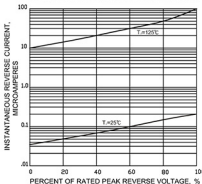


FIG. 5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

