

Single Phase Glass Passivated Silicon Bridge Rectifier

$V_{RRM} = 600 \text{ V} - 1000 \text{ V}$

$I_O = 1.5 \text{ A}$

Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Small size, simple installation
- Types from 600 V up to 1000 V V_{RRM}
- Not ESD Sensitive

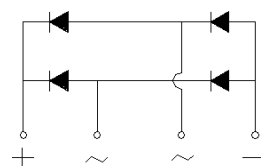
Mechanical Data

Case: Molded plastic

Terminals: Plated terminals, solderable per MIL-STD-202, Method 208

Polarity: Polarity symbols marked on the body

Mounting position: Any



DB Package



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

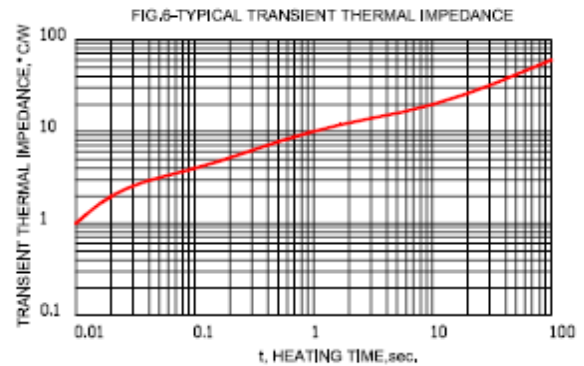
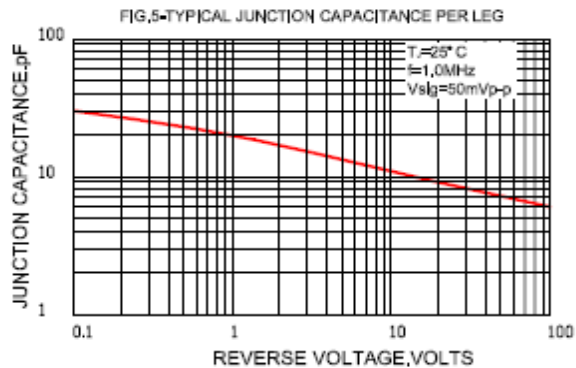
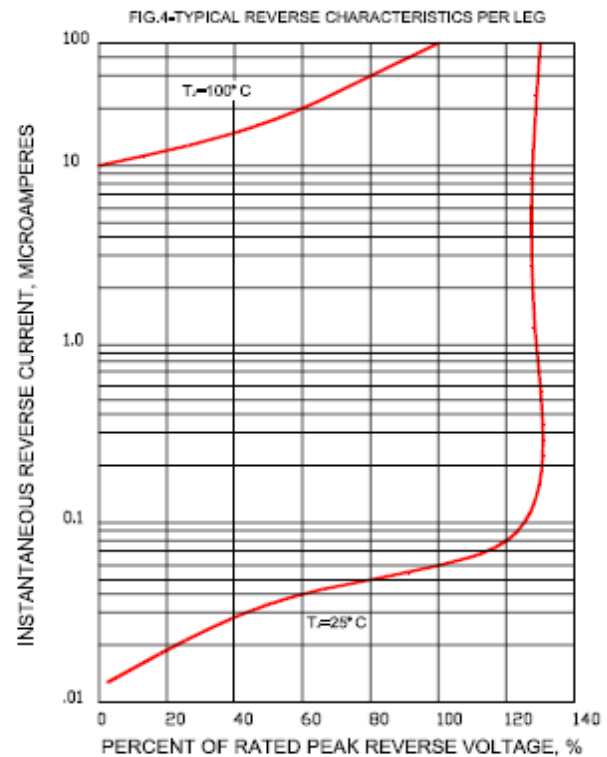
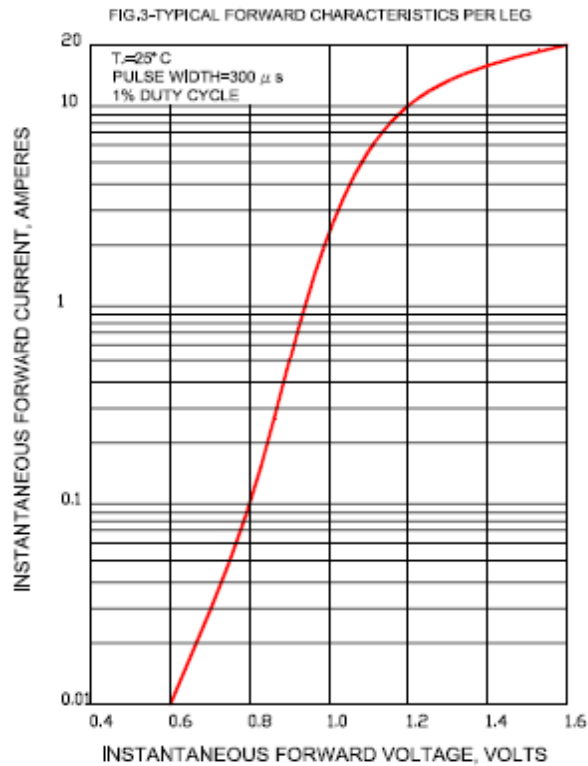
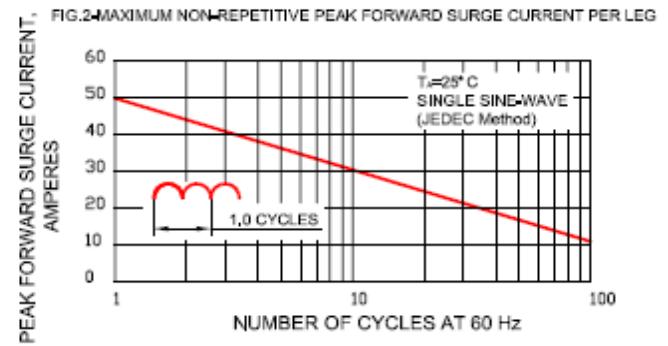
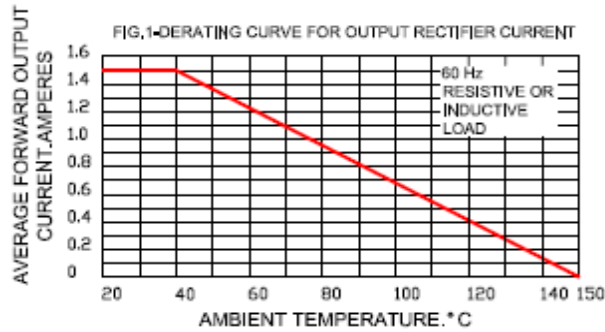
Parameter	Symbol	Conditions	DB155G	DB156G	DB157G	Unit
Repetitive peak reverse voltage	V_{RRM}		600	800	1000	V
RMS reverse voltage	V_{RMS}		420	560	700	V
DC blocking voltage	V_{DC}		600	800	1000	V
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$

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

Single phase, half sine wave, 60 Hz, resistive or inductive load

For capacitive load derate current by 20%

Parameter	Symbol	Conditions	DB155G	DB156G	DB157G	Unit
Maximum average forward rectified current	I_O	$T_a = 40^\circ\text{C}$	1.5	1.5	1.5	A
Peak forward surge current	I_{FSM}	$t_p = 8.3 \text{ ms}$, half sine	50	50	50	A
Maximum instantaneous forward voltage drop	V_F	$I_F = 1.5 \text{ A}$	1.1	1.1	1.1	V
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_a = 25^\circ\text{C}$	5	5	5	μA
		$T_a = 125^\circ\text{C}$	500	500	500	
Rating for fusing	I^2t	$t < 8.3 \text{ ms}$	10	10	10	A^2sec
Typical junction capacitance	C_j		14	14	14	pF
Typical thermal resistance	$R_{\theta JA}$		36	36	36	$^\circ\text{C/W}$



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

