

6.0 A Single-Phase Silicon Bridge Rectifier
Rectifier Reverse Voltage 50 to 1000V

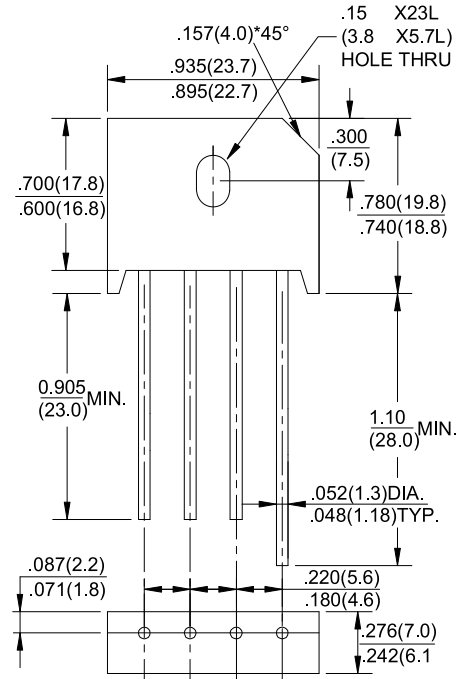


Features

- For purchase please contact ZEIVO, Assistant E-075583681018-engineer
- Single In-Line terminals array suitable for P.C. board mounting
- Surge overload ratings to 250 amperes peak
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High temperature soldering guaranteed 265°C/10 seconds/.375"(9.5mm) lead length at 5 lbs (2.3kg) tension

Mechanical Data

Case: Molded plastic
 Terminals: Plated wire leads solderable per MIL-STD-202, Method 208
 Mounting Position: Any
 Mounting Torque: 5 in-lb maximum
 Weight: 0.3 ounce, 8 grams (approx)



Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
 For Capacitive load derate current by 20%.

Parameter	Symbol	RS601	RS602	RS603	RS604	RS605	RS606	RS607	unit	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V	
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V	
Maximum average forward rectified output current at $T_C=100^\circ\text{C}$ $T_C=45^\circ\text{C}$	IF(AV)	6.0				4.0				A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	250								A
Rating for fusing (t<8.3ms)	I ² t	300								A ² sec
Typical thermal resistance per element (1)	ReJA	2.5								°C / W
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150								°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60Hz.
 For Capacitive load derate by 20 %.

Parameter	Symbol	RS601	RS602	RS603	RS604	RS605	RS606	RS607	Unit	
Maximum instantaneous forward voltage drop per leg at 6.0A	VF	1.1								V
Maximum DC reverse current at rated DC blocking voltage per element $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	IR	10				1000				μA

Notes: (1)Thermal resistance from Junction to Ambient on P.C.board mounting.

Rating and Characteristic Curves ($T_A=25^{\circ}\text{C}$ Unless otherwise noted) RS601 thru RS607

Fig. 1 Derating Curve for Output Rectified Current

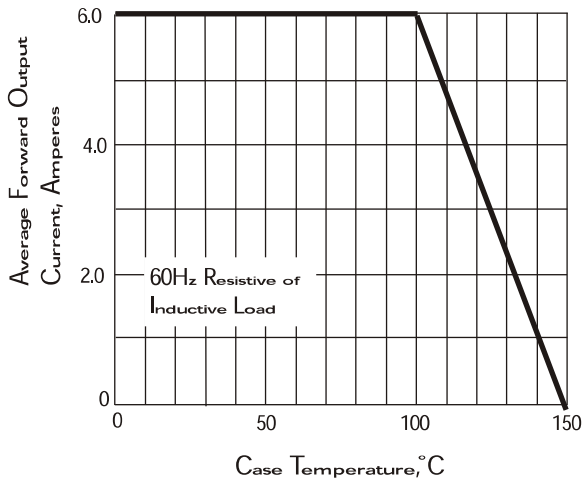


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

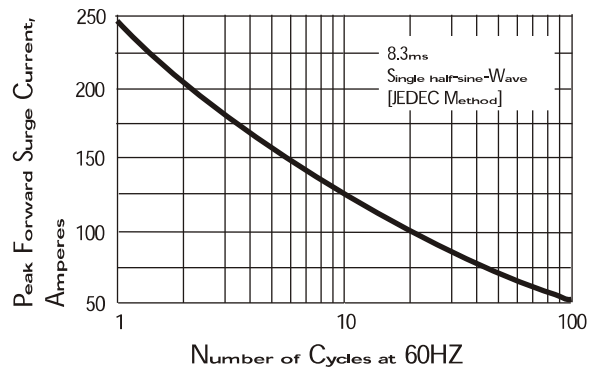


Fig. 3 Typical Instantaneous Forward Characteristics

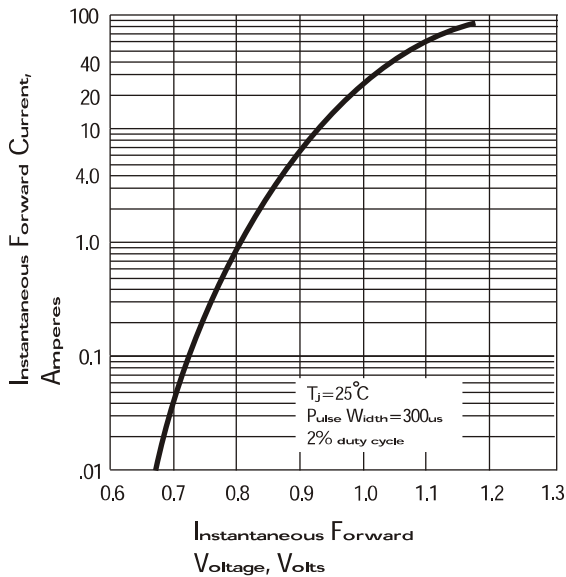


Fig. 4 Typical Reverse Characteristics

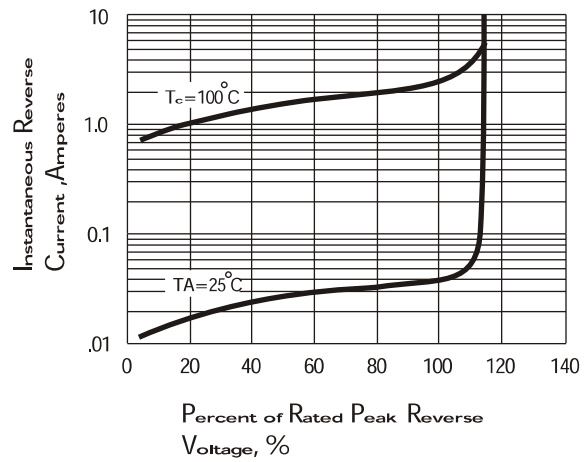


Fig. 5 Typical Junction Capacitance

