Silicon Bridge Rectifier





Features:

- · Glass, Passivated Chip Junctions
- · High Surge Overload Rating: 35A Peak
- · Saves Space on Printed Circuit Boards
- High Temperature Soldering Guaranteed: 260°C/10 seconds at 5lbs. (2.3kg) tension

Mechanical Data:

- · Case: Molded Plastic Body over Passivated Junctions
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026
- Polarity: Polarity Symbols Marked on Body Dimensions in Inches and (Millimeters)
- Mounting Position : Any
- · Weight: 0.0078oz, 0.22g

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, derate by 20%.

Characteristics	Symbol	HD04-T	Units
Peak repetitive reverse voltage	VRRM	400	V
RMS reverse voltage	VRMS	280	V
DC blocking voltage	V DC	400	V
Maximum average forward output current at T _A =25°C	lf(AV)	0.8	А
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	lғsм	35	А
Maximum instantaneous forward voltage at 0.8A	VF	1	V
Maximum reverse current at T _A =25°C at rated DC blocking voltage at T _A =100°C	lR	5 0.5	μA mA
Typical junction capacitance per leg (Note 3)	С	13	pF
Typical thermal resistance per leg (Note 1) (Note 2)	Røja Røjl	85 20	°C/W
Storage and Operating junction temperature range	TJ, Tsтg	- 55 to +150	°C

Notes:

- (1) On glass epoxy PCB mounted on 0.05" × 0.05" (1.3mm × 1.3mm) pads.
- (2) On aluminium substrate PCB with an area of 0.8" \times 0.8" (20mm \times 20mm) mounted on 0.05" \times 0.05" (1.3mm \times 1.3mm) solder pad.
- (3) Measured at 1MHz and applied reverse voltage of 4V.

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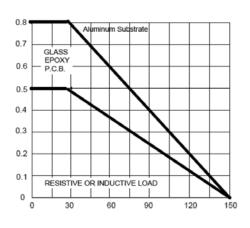


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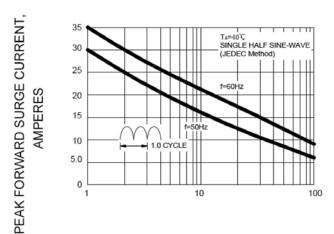
AVERAGE FORWARD CURRENT, AMPERES

FIG.1 -- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



AMBIENT TEMPERATURE, ℃

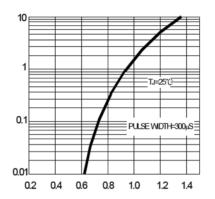
FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD
SURGE CURRENT PER LEG



NUMBER OF CYCLES AT 50/60Hz

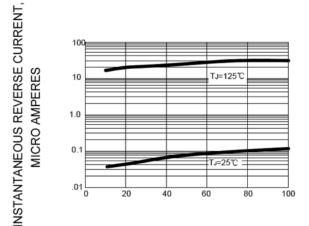
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG.3 – TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.4 - TYPICAL REVERSE CHARACTERISTIC



PERCENT OF RATED PEAK REVERSE VOLTAGE,%

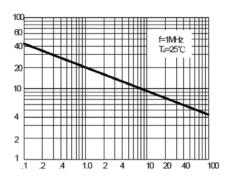


Silicon Bridge Rectifier



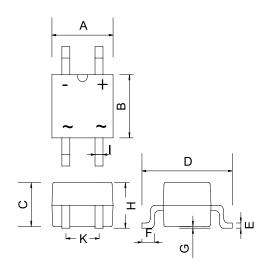
FIG.5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

APACITANCE, pF



REVERSE VOLTAGE, VOLTS

Package Outline:



MBS				
Dim.	Min.	Max.		
А	4.4	4.8		
В	3.4	3.8		
С	2.35	2.65		
D	6.5	7		
E	0.15	0.35		
F	0.9	1.5		
G	0.2 Max.			
Н	2.5	2.8		
Ī	0.5	0.8		
K	2.3	2.7		

Dimensions: Millimetres

Package Information:

Device	Package	Shipping
HD04-T	MBS	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Silicon Bridge Rectifier	HD04-T

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