

# D3SB10 - D3SB80

**PRV : 100 - 800 Volts**

**Io : 4.0 Amperes**

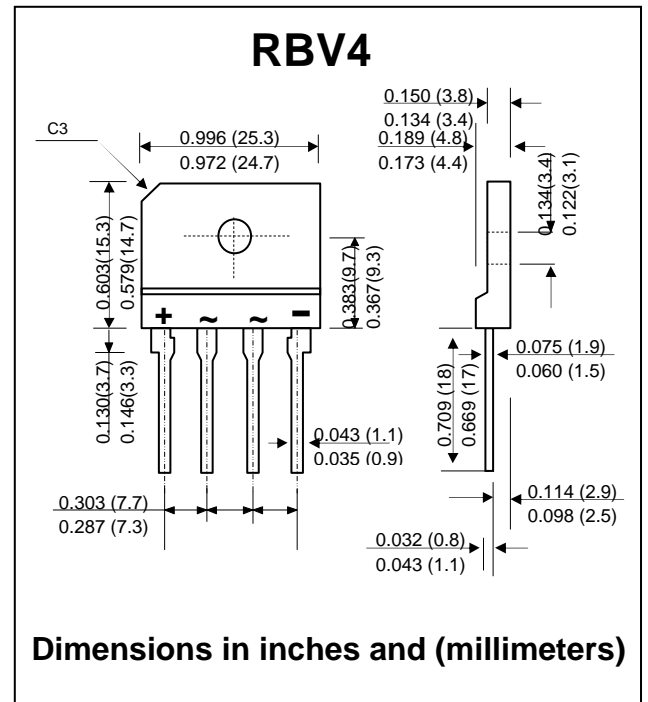
### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Ideal for printed circuit board
- \* Very good heat dissipation
- \* **Pb / RoHS Free**

### MECHANICAL DATA :

- \* Case : Reliable low cost construction utilizing molded plastic technique
- \* Epoxy : UL94V-O rate flame retardant
- \* Terminals : Plated lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Polarity symbols marked on case
- \* Mounting position : Any
- \* Weight : 4.28 grams

# SILICON BRIDGE RECTIFIERS



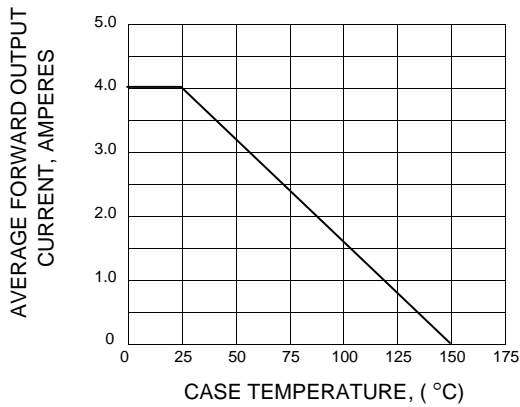
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load  
For capacitive load, derate current by 20%

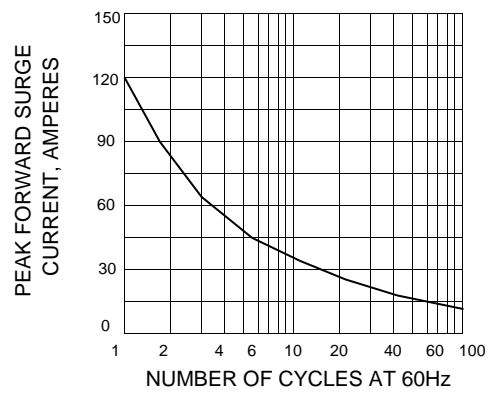
RATING	SYMBOL	D3S B10	D3S B20	D3S B40	D3S B60	D3S B80	UNIT
Maximum Reverse Voltage	$V_{RM}$	100	200	400	600	800	V
Maximum Average Forward Current $T_c = 25^\circ C$	$I_{F(AV)}$	4.0					A
Maximum Peak Forward Surge Current	$I_{FSM}$	120					A
Maximum Forward Voltage per Diode at $I_F = 2.0 A$	$V_F$	1.05					V
Maximum Reverse Current at Reverse Voltage	$I_R$	10					$\mu A$
Maximum Reverse Current at Reverse Voltage $T_a = 100^\circ C$	$I_{R(H)}$	100					$\mu A$
Operating Junction Temperature Range	$T_J$	- 40 to + 150					$^\circ C$
Storage Temperature Range	$T_{STG}$	- 40 to + 150					$^\circ C$

**RATING AND CHARACTERISTIC CURVES ( D3SB10 - D3SB80 )**

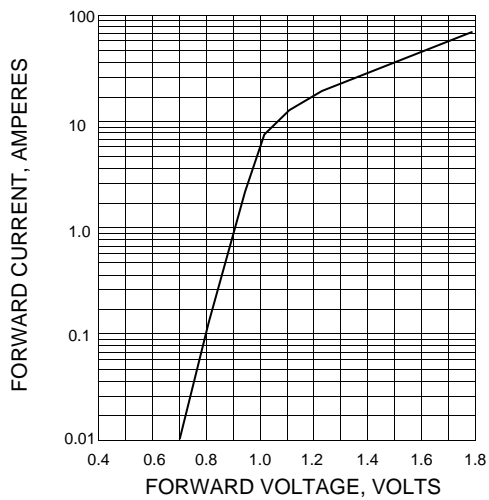
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

