

D20XB20 - D20XB60

PRV : 200 - 600 Volts

Io : 20 Amperes

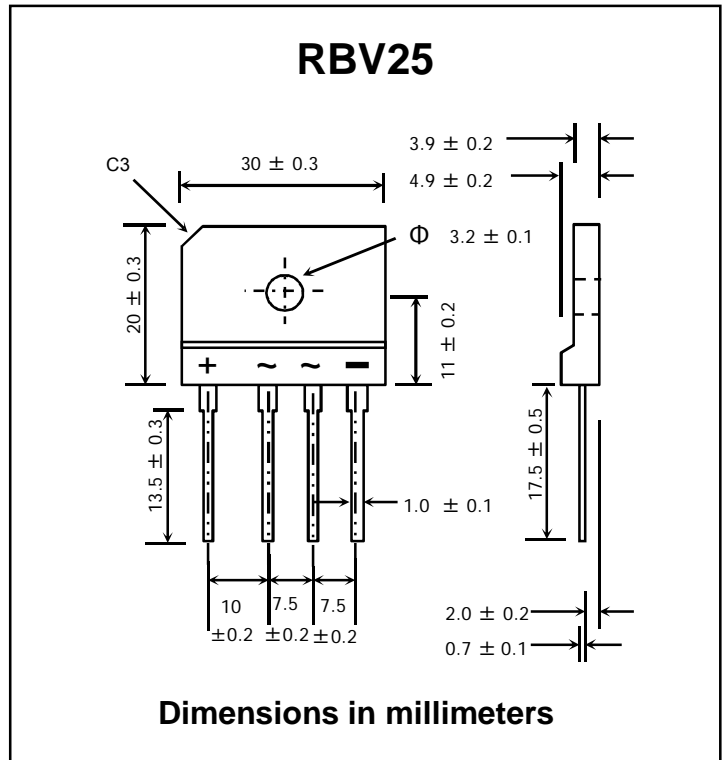
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * High case dielectric strength of 2000 V_{AC} @1 Sec
- * 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-0 rate flame retardant
- * Terminals : Plated lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight : 7.7 grams

SILICON BRIDGE RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	D20XB20	D20XB60	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	600	V
Maximum RMS Voltage	V _{RMS}	140	420	V
Maximum DC Blocking Voltage	V _{DC}	200	600	V
Maximum Average Forward Current (50Hz Sine wave, R-load)	I _O	20 (With heatsink, T _c = 87°C) 3.5 (Without heatsink, T _a = 25°C)		A
Maximum Peak Forward Surge Current, T _j = 25°C (50Hz sine wave, Non-repetitive 1 cycle peak value)	I _{FSM}	240		A
Current Squared Time at 1ms ≤ t < 10 ms, T _c =25°C	I ² t	200		A ² S
Maximum Forward Voltage per Diode at I _F = 10 A	V _F	1.1		V
Maximum DC Reverse Current, V _R =V _{RRM} (Pulse measurement, Rating of per diode)	I _R	10		μA
Maximum Thermal Resistance, Junction to case	R _{θJC}	1.5 (With heatsink)		°C/W
Maximum Thermal Resistance, Junction to Ambient	R _{θJA}	22 (Without heatsink)		°C/W
Operating Junction Temperature	T _J	150		°C
Storage Temperature Range	T _{STG}	- 40 to + 150		°C

RATING AND CHARACTERISTIC CURVES (D20XB20 - D20XB60)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

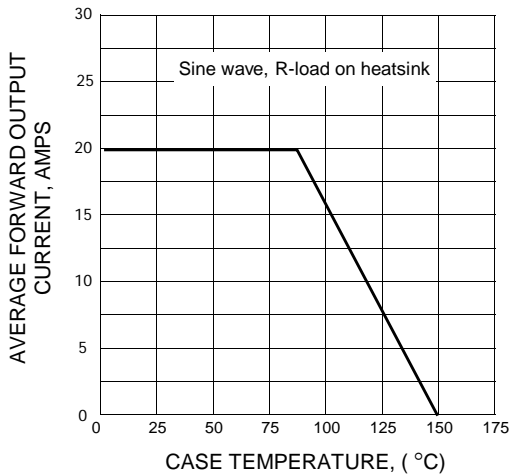


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

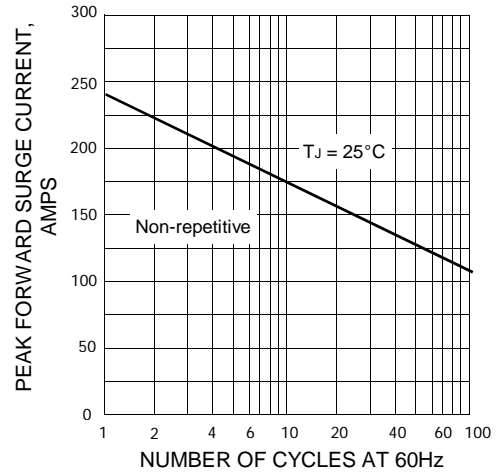


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

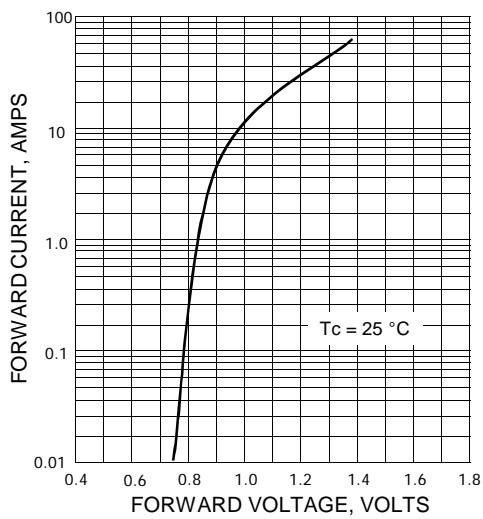


FIG.4 - POWER DISSIPATION

