





Certificate Number: Q10561

Certificate Number: E17276

D25XB20 ~ D25XB60

PRV: 200 - 600 Volts

lo: 25 Amperes

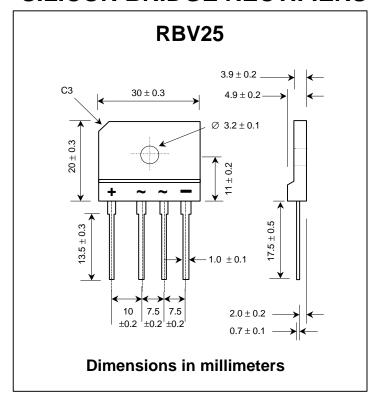
FEATURES:

- * 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 : 7.7 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	D25XB20	D25XB60	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		25 (With heatsink, Tc = 98°C)		А
50 Hz sine wave, R-load	3.5 (Without heatsink,		tsink, Ta = 25°C)	
Peak Forward Surge Current, 50Hz sine wave	1	350		А
Non-repetitive 1 cycle peak value, Tj = 25 °C	I _{FSM}			
Current Squared Time at t < 8.3 ms.	l ² t	300		A ² S
Maximum Forward Voltage per Diode at IF = 12.5 A	V _F	1.05		V
Maximum DC Reverse Current Ta = 25 °C	I _R	10		μΑ
at Rated DC Blocking Voltage Ta = 100 °C	I _{R(H)}	200		μА
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	1.0		°C/W
Operating Junction Temperature Range	TJ	- 40 to + 150		°C
Storage Temperature Range	T _{STG}	- 40 to + 150		°C

Note:

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^{1.} Thermal resistance from junction to case, With heat sink.







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RATING AND CHARACTERISTIC CURVES (D25XB20 ~ D25XB60)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

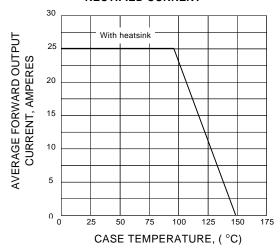


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

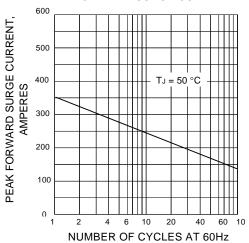


FIG.3 - TYPICAL FORWARD CHARACTERISTICS
PER DIODE

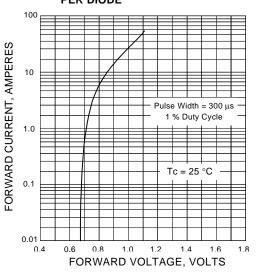
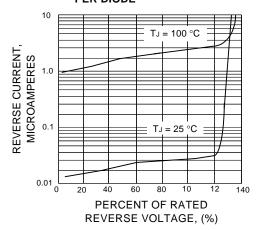


FIG.4 - TYPICAL REVERSE CHARACTERISTICS
PER DIODE



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