



SILICON BRIDGE RECTIFIERS

DB201--DB207

FEATURES

- Rating to 1000V PRVP
- Surge overload rating to 60 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208
- Glass passivated chip junctions
- Plastic material has UL flammability classification 94V-O



Lead-free



Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	DB201	DB202	DB203	DB204	DB205	DB206	DB207	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	75	140	280	420	560	700	V
DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward Output current @TA=25°C	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	60							A

Thermal Characteristics

Characteristic	Symbol	DB201	DB202	DB203	DB204	DB205	DB206	DB207	UNITS
Operating junction temperature range	T_J	- 55 ---- + 150							°C
Storage temperature range	T_{STG}	- 55 ---- + 150							°C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	DB201	DB202	DB203	DB204	DB205	DB206	DB207	UNITS
Maximum instantaneous forward voltage at 2.0 A	V_F	1.1							V
Maximum reverse current @TA=25°C at rated DC blocking voltage @TA=100°C	I_R	5.0 0.5							μ A mA



SILICON BRIDGE RECTIFIERS

DB201--DB207

PACKAGE OUTLINE DIMENSIONS

DFM		
Dim	Min	Max
A	8.20	8.60
B	6.10	6.50
C	2.35	2.65
E	0.15	0.35
F	5.40	6.00
I	0.35	0.65
J	8.40	9.00
K	4.80	5.20
L	7.65	8.15
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
DB201--DB207	DFM	50unit/pipe



SILICON BRIDGE RECTIFIERS

DB201--DB207

FIG.1 – PEAK FORWARD SURGE CURRENT

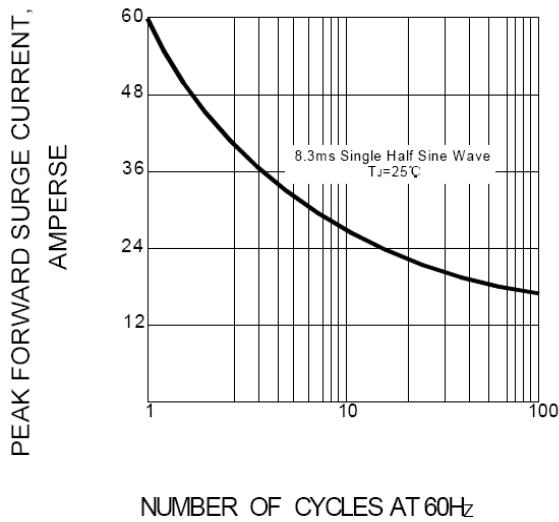


FIG.2 – FORWARD DERATING CURVE

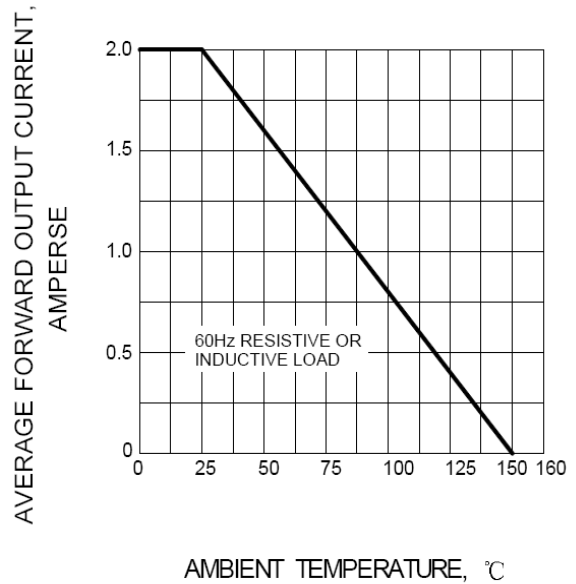


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

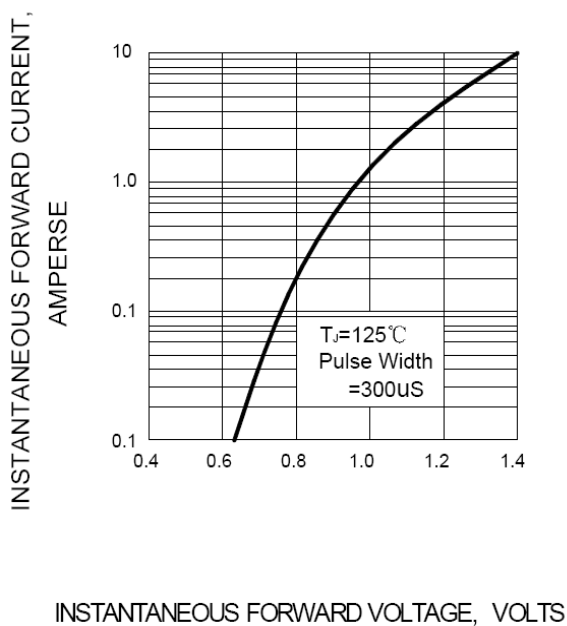


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

