

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - **600** Volts
FORWARD CURRENT - **6.0** Amperes

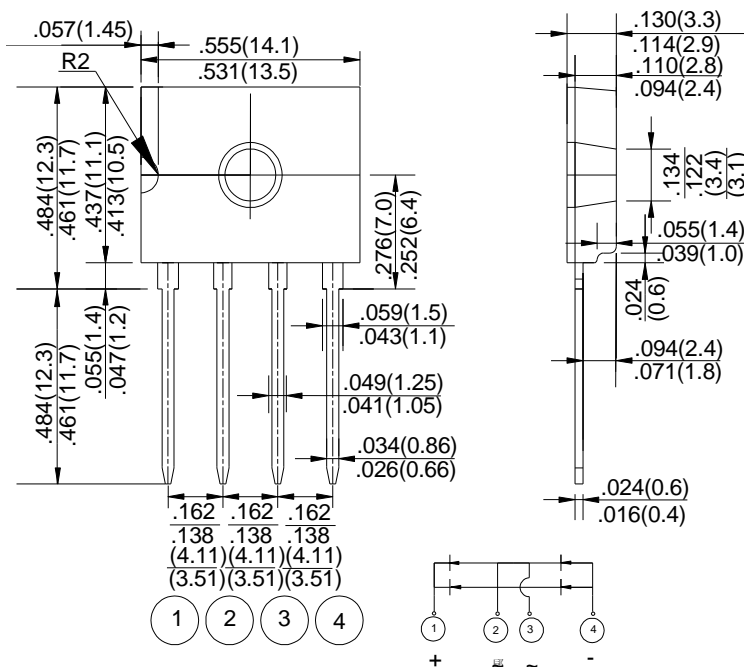
FEATURES

- Glass passivated chip junction
 - High case dielectric strength
 - High surge current capability
- Ideal for printed circuit board

MACHANICAL DATA

- Terminal:Plated leads solderable per MIL-STD 202E,
Method 208C
- Case:UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity:Polarity symbol marked on body
- Mounting position:any

D3K



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	D6KB6L	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Output Current @ $T_c=140^{\circ}C$ (with heatsink)	$I_{(AV)}$	6	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	150	A
Maximum Forward Voltage at 3.0A DC	V_F	0.92	V
I^2t Rating for Fusing ($t<8.3ms$)	I^2t	93	A^2s
Maximum Typical Thermal Resistance without heatsink	$R_{\theta Ja}$	55	$^{\circ}C/W$
with heatsink	$R_{\theta Jc}$	127	
without heatsink	$R_{\theta JL}$	15	
Maximum DC Reverse Current @ $T_a=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_a=125^{\circ}C$	I_R	10.0 500	μA
Operating Temperature Range	T_J	-55 to +150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}C$

FIG.1-DERATING CURVE OUTPUT
RECTIFIED CURRENT

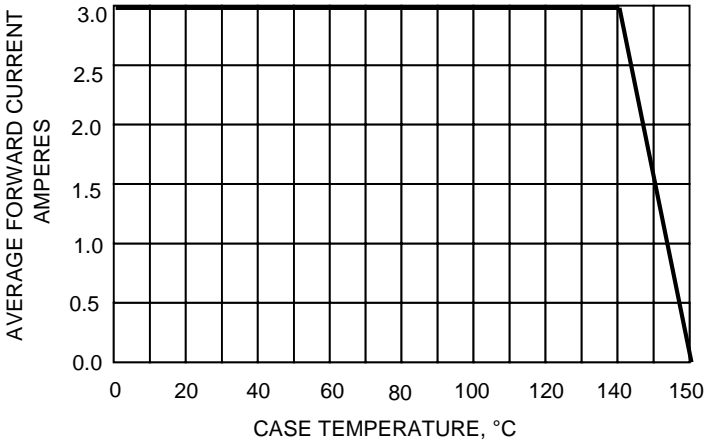


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

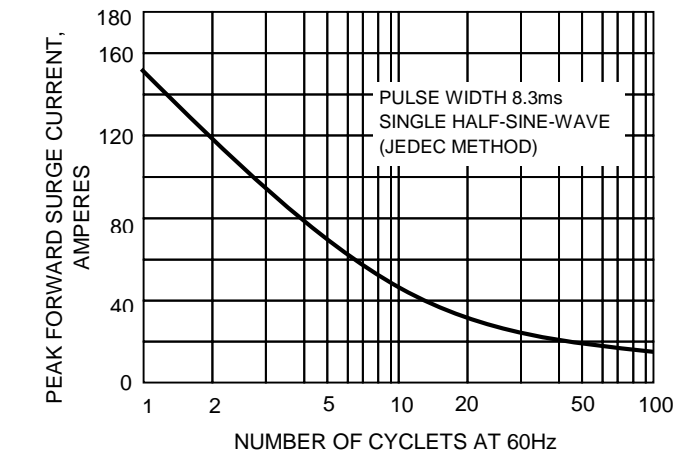


FIG.3-TYPICAL FORWARD CHARACTERISTICS

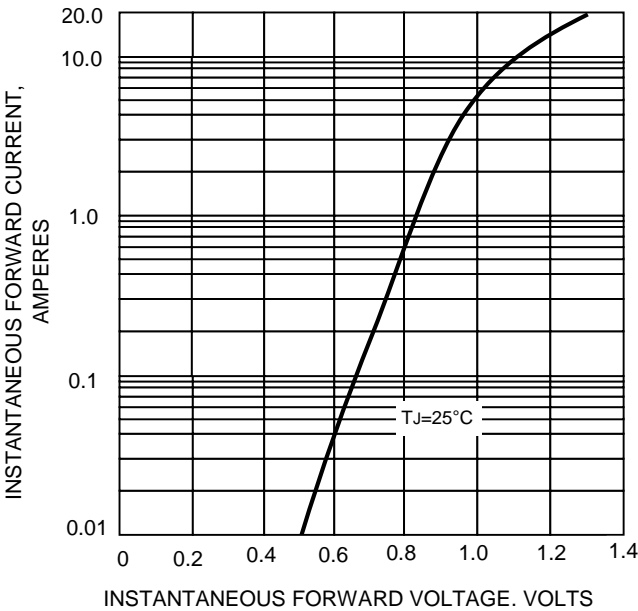


FIG.5-TYPICAL REVERSE CHARACTERISTICS

