WEITRON

D2KB05 thru D2KB10

Glass Passivated Bridge Rectifiers

Lead(Pb)-Free

REVERSE VOLTAGE
50 TO 1000 VOLTS
FORWARD CURRENT
2.0 AMPERE

Features:

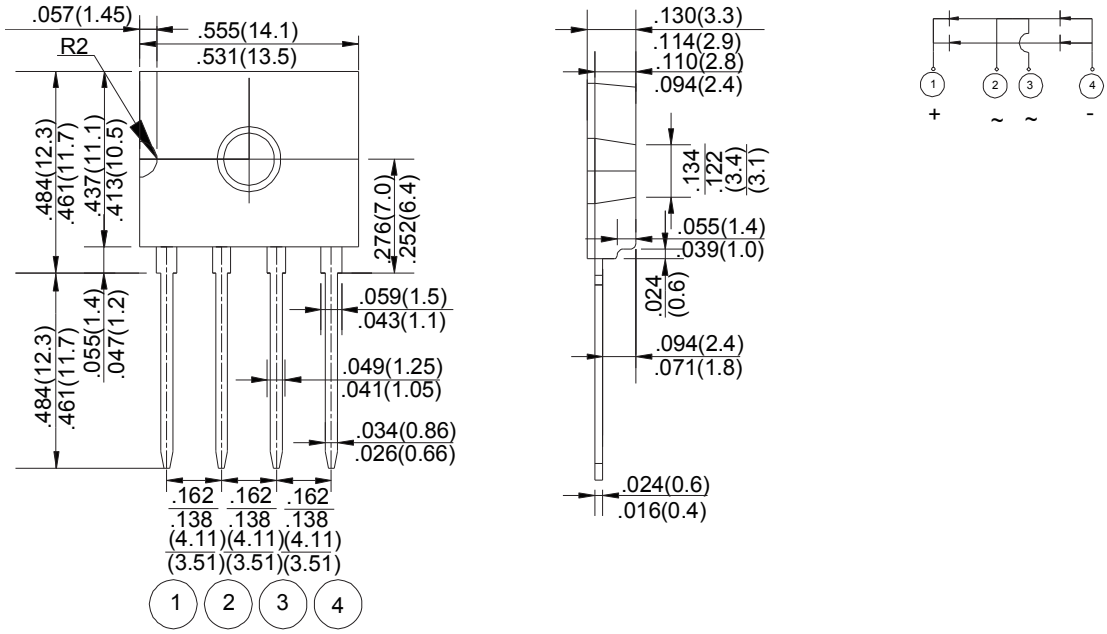
* Glass passivated chip junction
* High case dielectric strength
* High surge current capability
* Ideal for printed circuit board

Mechanical Data:

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

D3K Outline Dimensions

Unit:mm



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	D2KB05	D2KB1	D2KB2	D2KB4	D2KB6	D2KB8	D2KB10	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A=138˚C (with heatsink)	$I_{(AV)}$	2							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	60							A
Maximum Forward Voltage at 2.0A DC	V_F	1.1							V
I^2t Rating for Fusing (t<8.3ms)	I^2t	14.94							A^2s
Maximum DC Reverse Current @T_J=25˚C at Rated DC Bolcking Voltage @T_J=125˚C	I_R	10.0 500							uA
Typical Thermal Resistance without heatsink with heatsink without heatsink	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	55 1.5 15							˚C/W
Operating Temperature Range	TJ	-55 to +150							˚C
Storage Temperature Range	T_{STG}	-55 to +150							˚C

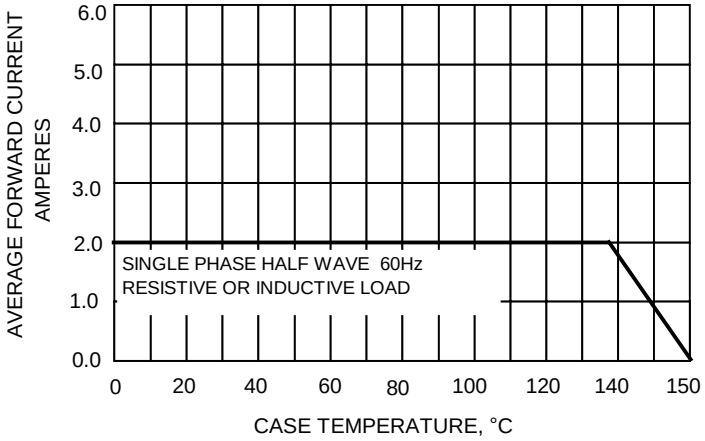


FIG.1-DERATING CURVE OUTPUT
RECTIFIED CURRENT

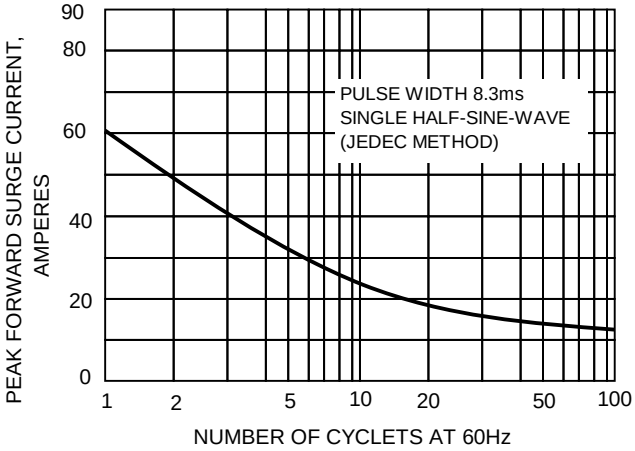


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

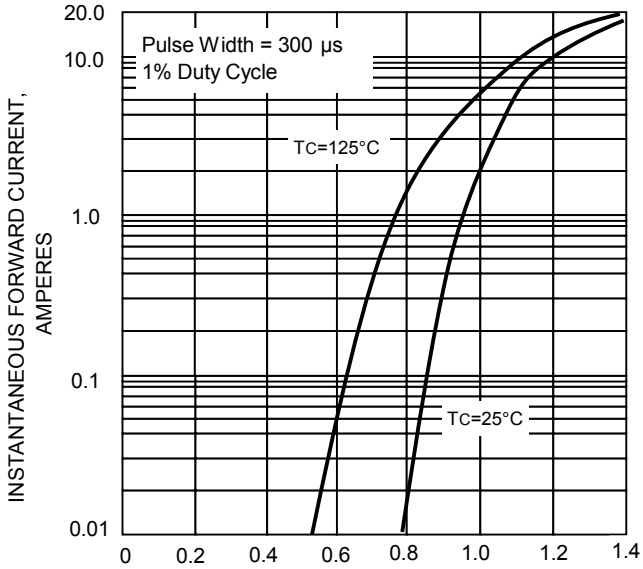


FIG.3-TYPICAL FORWARD CHARACTERISTICS

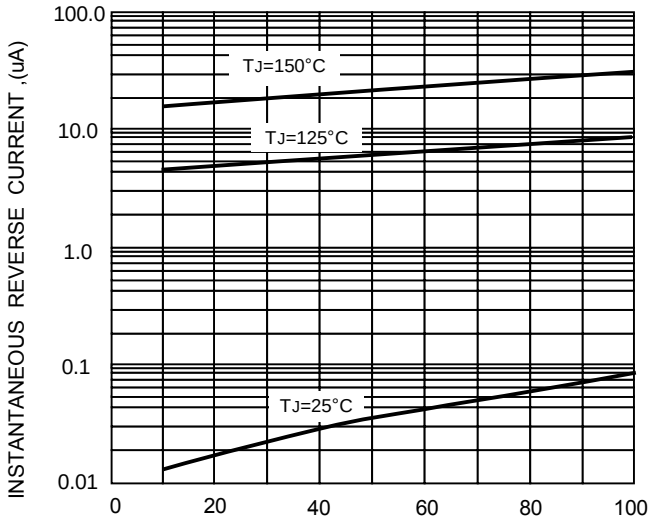


FIG.4-TYPICAL REVERSE CHARACTERISTICS