Purple stone electronic

D2KB05 thru D2KB10

GLASS PASSIVATED
BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50** to **1000**Volts
FORWARD CURRENT - **2.0** Amperes

FEATURES

- Glass passivated chip junction
- High case dielectric strength
- High surge current capability

Ideal for printed circuit board

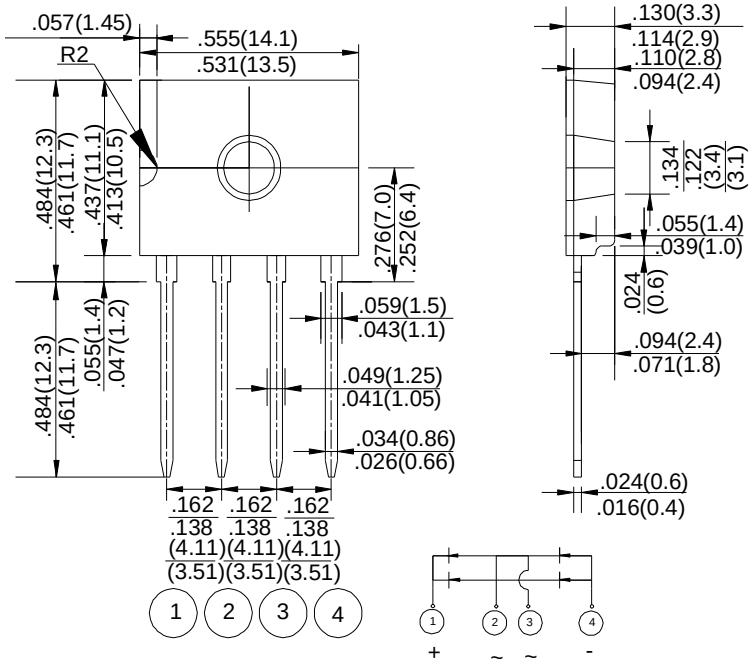
MACHANICAL DATA

- Terminal:Plated leads solderable per MIL-STD 202E,

Method 208C

- Case:UL-94 Class V-0 recognized Flane Retardant Epoxy
- Polarity:Polarity symbol marked on body
- Mounting position:any

D3K



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ 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 Output Current @ T_C=138℃ (with heatsink)	$I_{(AV)}$	2							A
Peak Forward Surge 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
Typical Thermal Resistance without heatsink	$R_{\theta Ja}$	55							℃/W
with heatsink	$R_{\theta JC}$	1.5							℃/W
without heatsink	$R_{\theta JL}$	15							℃/W
Maximum DC Reverse Current @ T_a=25℃	I_R	10.0							μA
at Rated DC Blocking Voltage @ T_a=125℃		500							μA
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

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FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

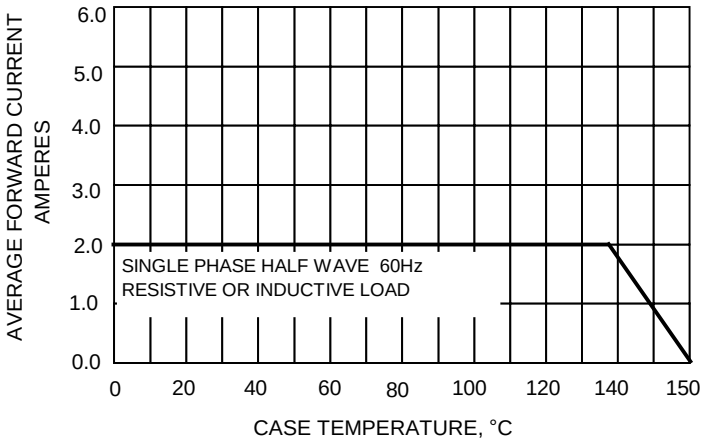


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

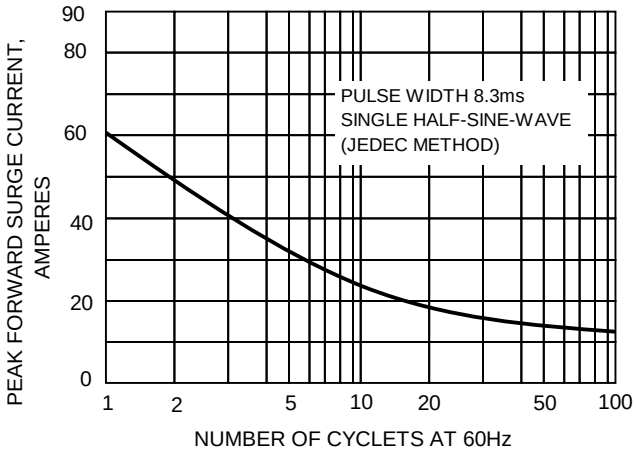


FIG.3-TYPICAL FORWARD CHARACTERISTICS

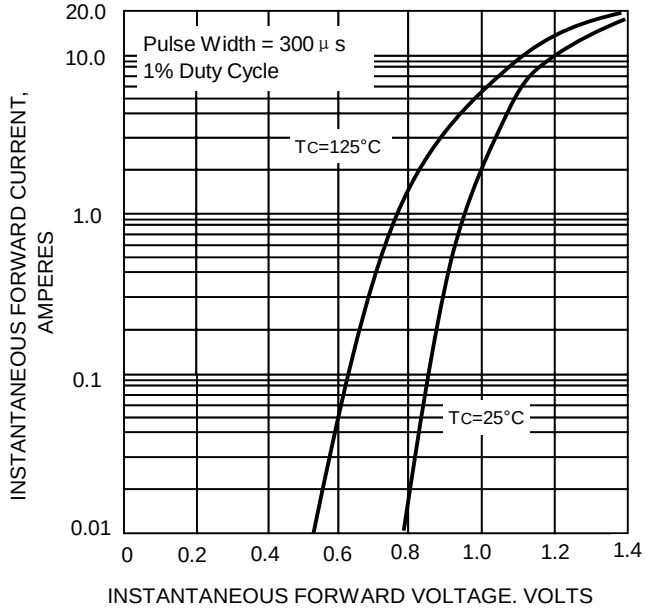
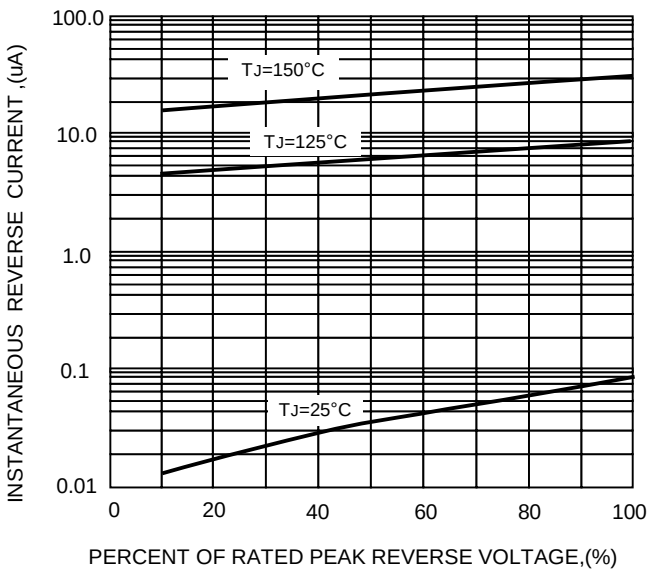


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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