D4KB005 ~ D4KB10

BRIDGE RECTIFIER

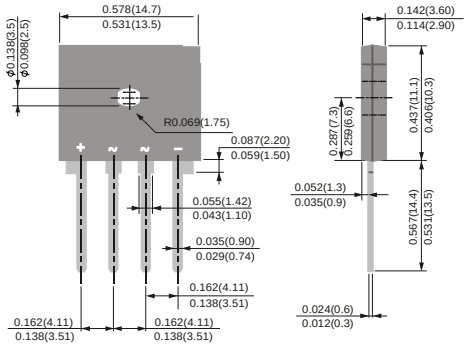
VOLTAGE 50 to 1000 Volts **CURRENT** 4 Amperes

Green

)

D4KB

Unit : inch(mm)



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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current voltage by 20%.

CHARACTERISTICS	SYMBOL	D4KB005	D4KB01	D4KB02	D4KB04	D4KB06	D4KB08	D4KB10	UNITS
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=140℃ (with heatsink)	$I_{(AV)}$	4							A
@ Ta=29 ℃ (without heatsink)		1.2							
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	135							A
Maximum Forward Voltage at 2.0A DC	V_F	1.05							V
I^2t Rating for Fusing (t<8.3ms)	I^2t	75.63							A^2s
Maximum Typical Thermal Resistance without heatsink	$R_{\theta Ja}$	55							℃/W
with heatsink	$R_{\theta JC}$	1.5							
without heatsin	$R_{\theta JL}$	15							
Maximum DC Reverse Current @ Ta =25℃	I_R	10.0							μA
at Rated DC Blocking Voltage @ Ta =125℃		500							
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

NOTES:The typical data above is for reference only(典型值仅供参考).

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FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

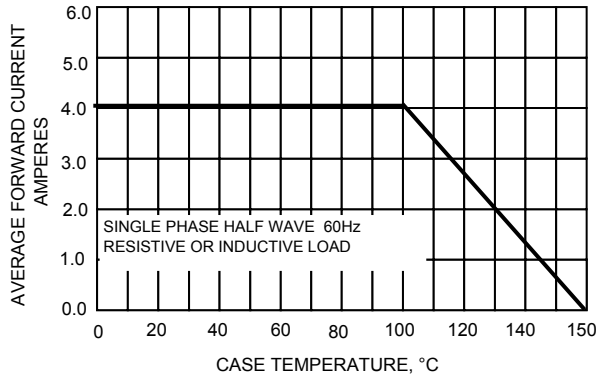


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

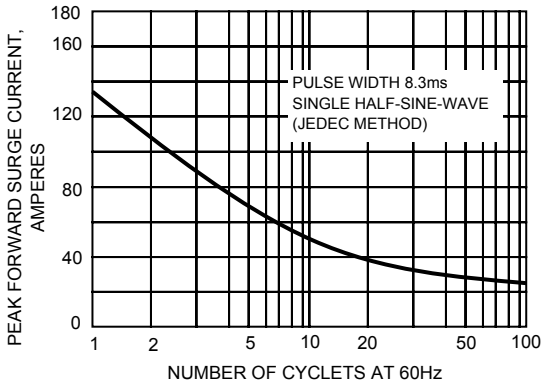


FIG.3-TYPICAL JUNCTION CAPACITANCE

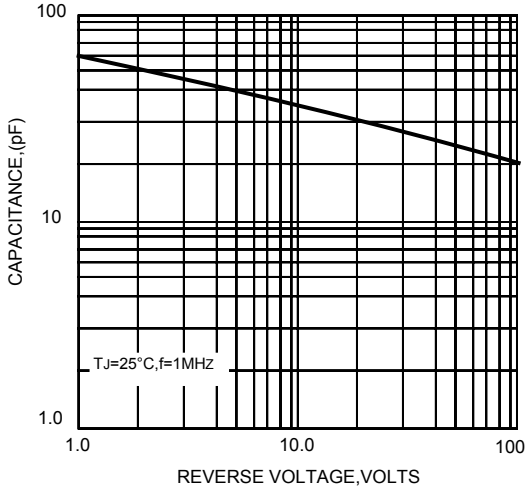


FIG.4-TYPICAL FORWARD CHARACTERISTICS

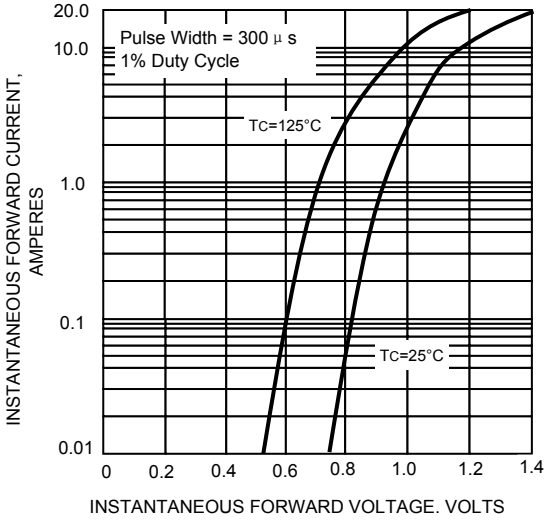
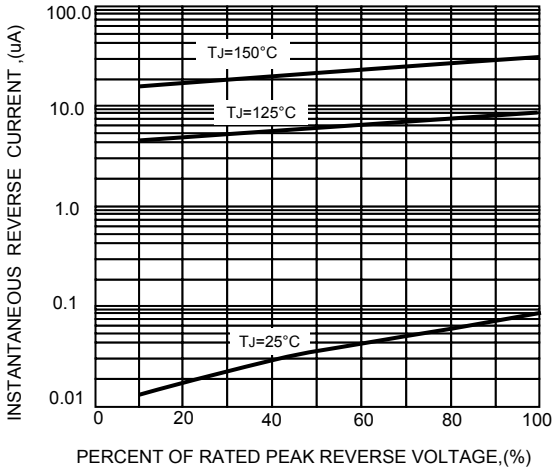


FIG.5-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment

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