

CURRENT 8.0 Ampere
 VOLTAGE RANG 50 to 1000 Volts

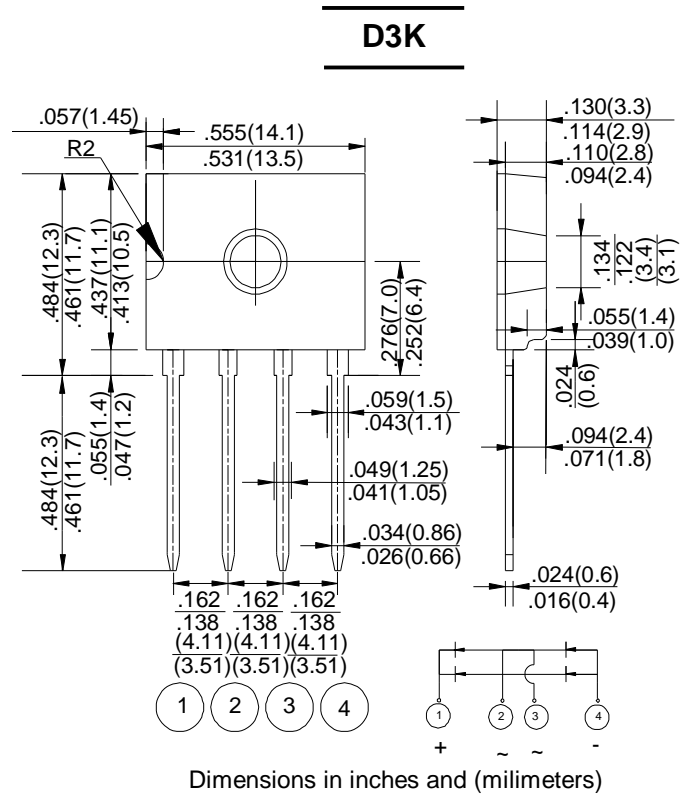
UD8KB005 THRU UD8KB100

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 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	D8KB005	D8KB01	D8KB02	D8KB04	D8KB06	D8KB08	D8KB100	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°C (with heatsink)	I _(AV)	8							A
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	1.0							V
Maximum Forward Voltage at 4.0A DC	V _F	1.1							V
I ² t Rating for Fusing (t<8.3ms)	I ² t	64.84							A ² s
Typical Thermal Resistance	without heatsink	R _{θJa}							°C/W
	with heatsink	R _{θJC}							
	without heatsink	R _{θJL}							
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _a =25°C	I _R							μA
	@ T _a =125°C	500							
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

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FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

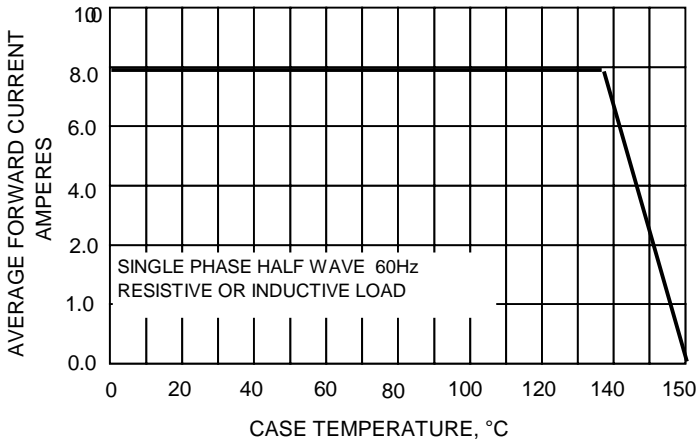


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

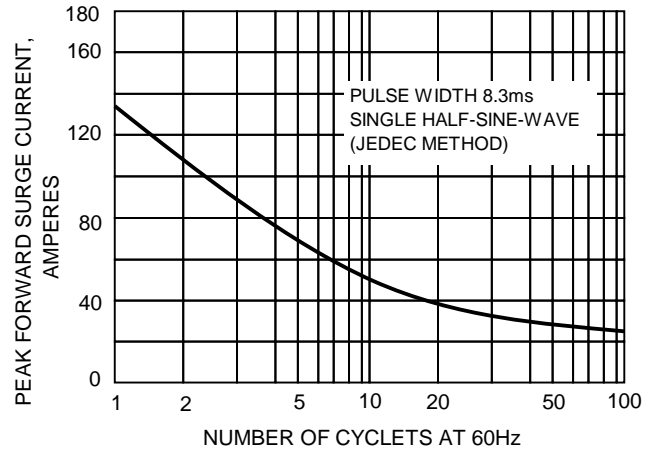


FIG.3-TYPICAL JUNCTION CAPACITANCE

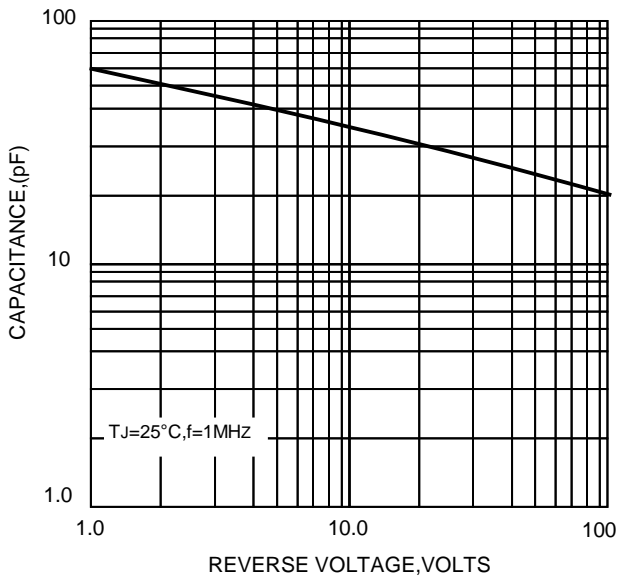


FIG.3-TYPICAL FORWARD CHARACTERISTICS

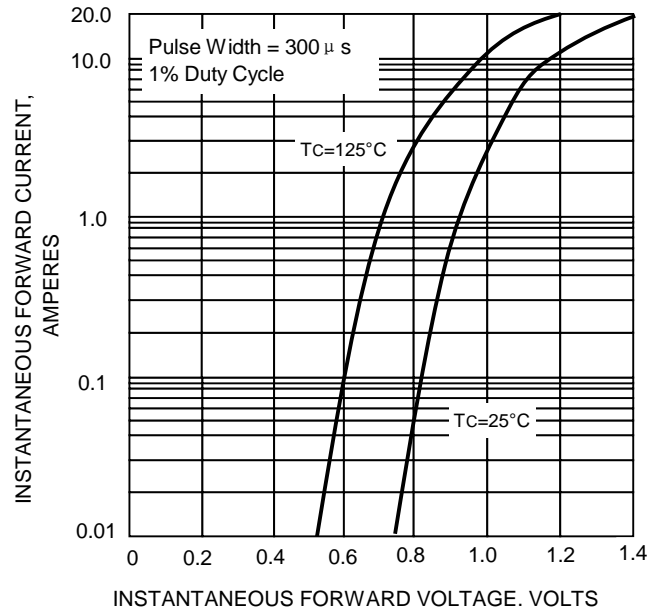


FIG.5-TYPICAL REVERSE CHARACTERISTICS

