



GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts

FORWARD CURRENT - 6.0 Amperes

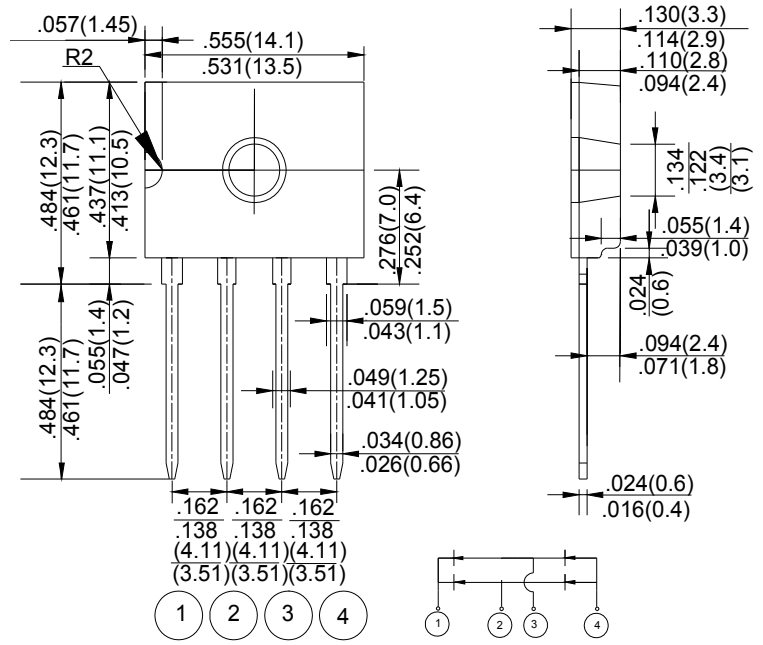
D3K

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



Dimensions in inches and (milimeters)

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	UG6KB05	UG6KB10	UG6KB20	UG6KB40	UG6KB60	UG6KB80	UG6KB100	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 <sub(av)< sub=""></sub(av)<>	6							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	75.63							A ² s
Typical Thermal Resistance	without heatsink R _{θJa}	55							°C/W
	with heatsink R _{θJc}	1.5							
	without heatsink R _{θJL}	15							
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _a =25°C	10.0							μA
	@ T _a =125°C	500							
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

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

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

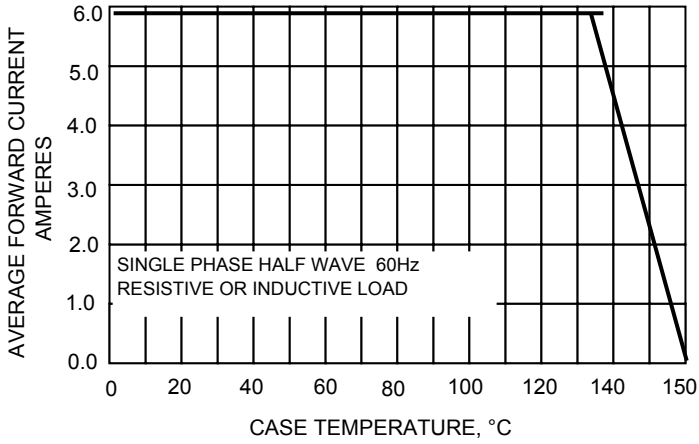


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

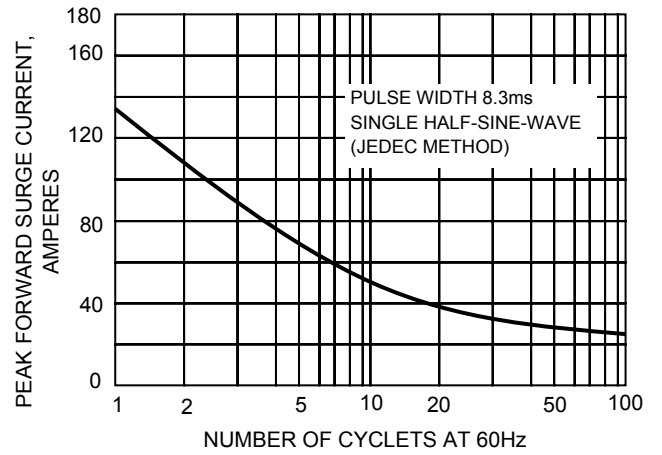


FIG.3-TYPICAL JUNCTION CAPACITANCE

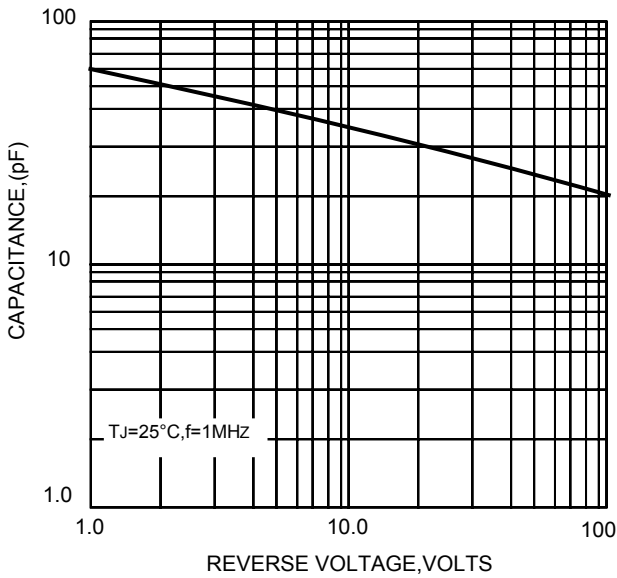


FIG.4-TYPICAL FORWARD CHARACTERISTICS

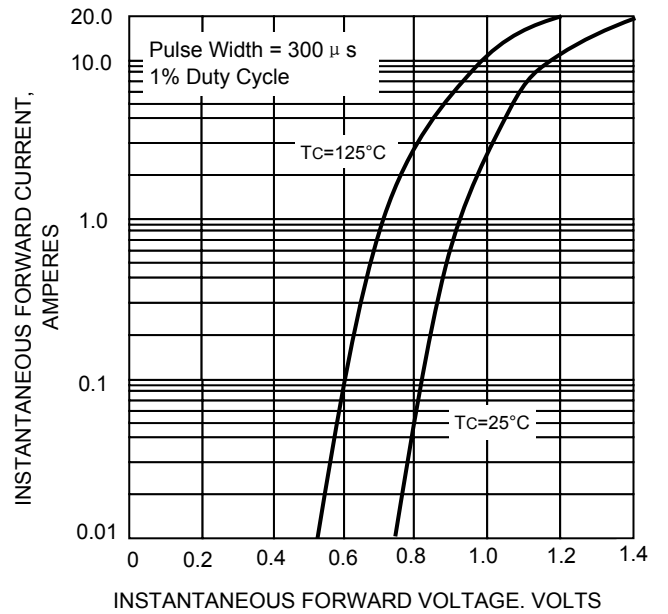
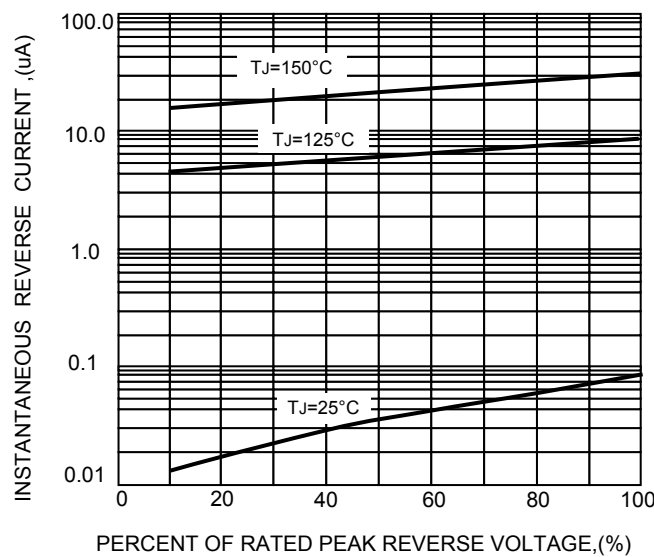


FIG.5-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!