D6UB05 THRU D6UB100

6.0 Glass Passivated Single Phase Bridge Rectifiers-50-1000V

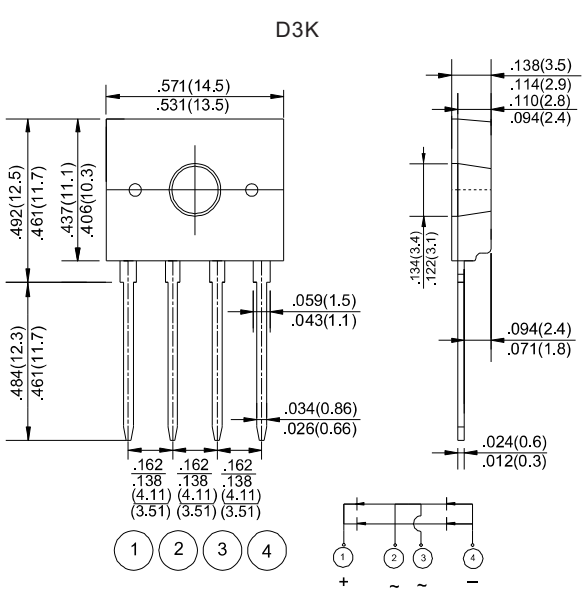
Features

- Surge overload ratings to 150 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction technique
- Lead-free parts for green partner, meet RoHS requirements
- Suffix "-H" indicates Halogen free parts, ex. D6UB100-H.

Mechanical data

- Case: Potted plastic round body D3K
- Epoxy: UL94-V0 rated flame retardant
- Terminals: Solderable per MIL-STD-750 Method 2026
- Polarity: As marked
- Mounting Position: Any

Package outline



Dimensions in inches and (millimeters)

Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	I_O			6.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I_{FSM}			150	A
Reverse current	V_R = V_{RRM} T_J = 25°C	I_R			5.0	uA
	V_R = V_{RRM} T_J = 125°C				500	
I^2t Rating for fusing	t < 8.3 ms	I^2t			93	A^2s
Typical thermal resistance	Junction to case(with heatsink)	$R_{\theta JC}$		1.5		°C/W
Storage temperature		T_{STG}	-65		+175	°C

SYMBOLS	V_{RRM} *1 (V)	V_{RMS} *2 (V)	V_R *3 (V)	V_F *4 (V)	Operating temperature T_J, (°C)
D6UB05	50	35	50	1.00	-55 to +150
D6UB10	100	70	100		
D6UB20	200	140	200		
D6UB40	400	280	400		
D6UB60	600	420	600		
D6UB80	800	560	800		
D6UB100	1000	700	1000		

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage @I_F=6.0A

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Rating and characteristic curves (D6UB05 THRU D6UB100)

FIG.1-DERATING CURVE
OUTPUT RECTIFIED CURRENT

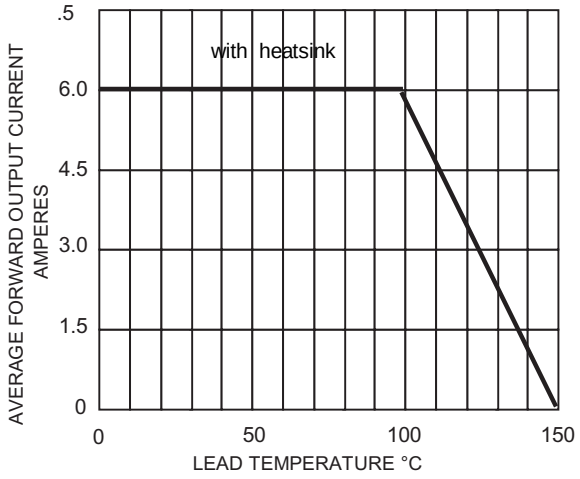


FIG.2-TYPICAL FORWARD
CHARACTERISTICS

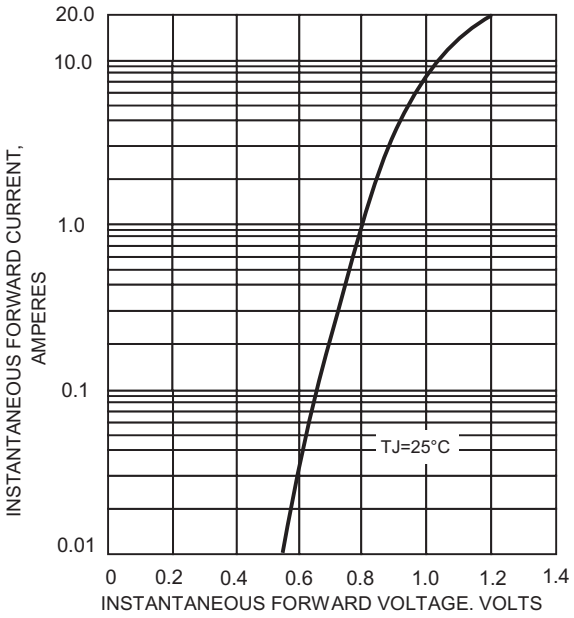


FIG.3-TYPIACL REVERSE CHARACTERISTICS

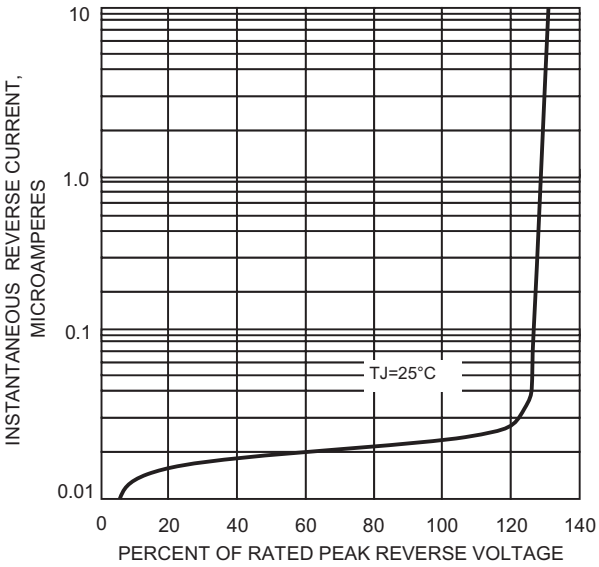
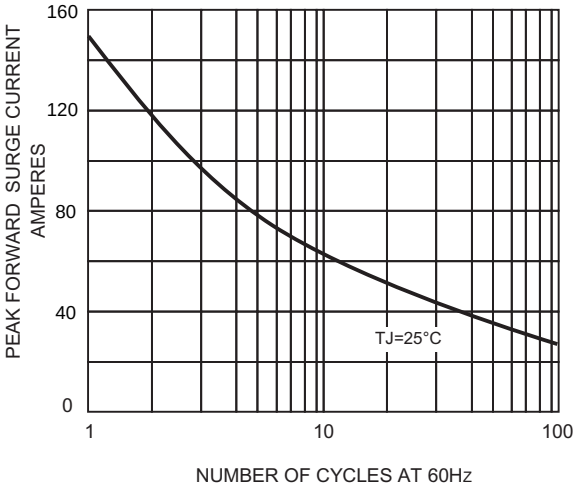


FIG.4-MAXIMUM FORWARD SURGE CURRENT



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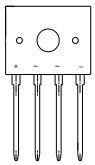
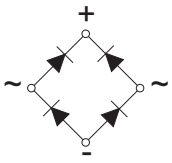
Pinning information

Simplified outline	Symbol
	

Marking

Type number	Marking code
D6UB05	D6UB05
D6UB10	D6UB10
D6UB20	D6UB20
D6UB40	D6UB40
D6UB60	D6UB60
D6UB80	D6UB80
D6UB100	D6UB100