

UG6KB10 THRU UG6KB100

SINGLE PHASE 6.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data

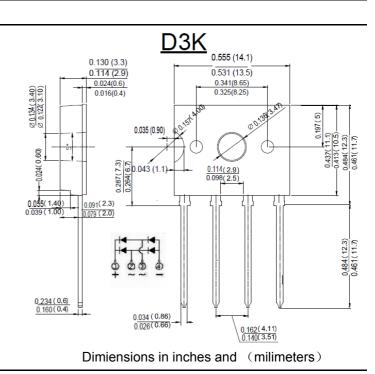
- Case: D3K,molded plastic
- Terminal: Plated leads solderable
 per MIL-STD 202,Method 208
- · Polarity: As Marked on case
- Mounting Position:Any
- Marking: Type Number
- Lead Free: For RoHS/Lead Free Version

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%.

TYPE NUMBER	SYMBOL	UG6K B05	UG6K B10	UG6K B20	UG6K B40	UG6K B60	UG6K B80	UG6K B100	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{DC}	35	70	140	280	420	560	700	V
Average RectifiedWithout heat sink @Tc=90°COutput CurrentWith heat sink @Tc=90°C		3.0 6.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150							A
² t Rating for Fusing (t < 8.3ms)	l²t	93.375							A ² s
Forward Voltage per element @IF=6.0A	V_{FM}	1.1							V
Maximum DC reverse current at T_A =25°C rated DC blocking voltage per leg T_A =125°C	I _R	5.0 500							uA
Typical Juntion Capacitance per leg	CJ	21							pF
Typical thermal resistance per leg(Note 1)	$R_{\theta JA}$	55							°C/W
	$R_{ extsf{ heta}JL}$	15							
Operating and Storage Temperature Range	$T_{J,}T_{STG}$	-55 to +150							°C

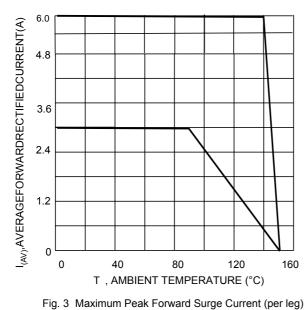
Note:1. Measured at 1.0 MHZ and applied reverse voltage of 4.0VD.C.

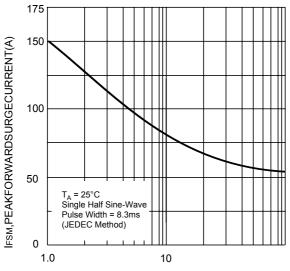




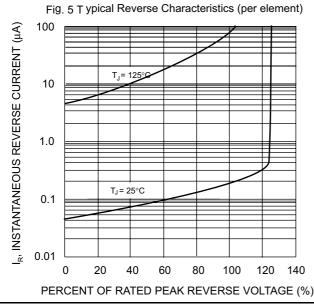
UG6KB05 THRU UG6KB100

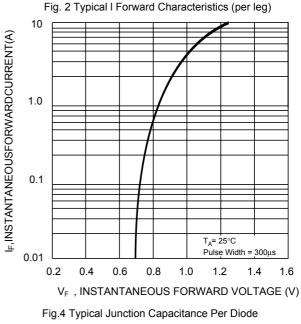
Fig. 1 Output Current Derating Curve

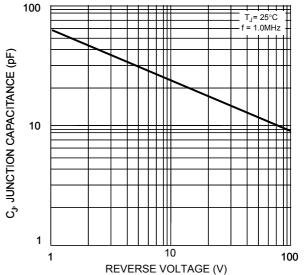




NUMBER OF CYCLES AT 60 Hz









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