SEMICONDUCTOR

RKBL406

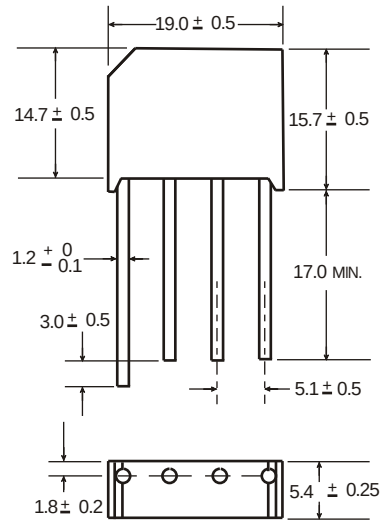
FAST RECOVERY BRIDGE RECTIFIER

Reverse Voltage: 600 Volts
Forward Current: 4. 0 Amps

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Improve EMI conduction characteristics
- High surge current capability
- High temperature soldering guaranteed:260°C/10 seconds at terminals Component in accordance to RoHS 2015/863/EU

KBL



Dimensions in milimeters

MECHANICAL DATA

- Case: KBL molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- 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%.)

Parameter		Symbols	RKBL406	Units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	600	Volts
Maximum RMS Voltage		V_{RMS}	420	Volts
Maximum DC Blocking Voltage		V_{DC}	600	Volts
Maximum Average Forward Rectified Current		$I_{(AV)}$	4. 0	Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	120	Amps
Rating for fusing (t<8. 3ms)		I^2t	60	A^2s
Maximum Instantaneous Forward Voltage at 4. 0 A DC		V_F	1. 30	Volts
Maximum DC Reverse Current at rated DC blocking voltage	T_A=25°C	I_R	5	μA
	T_A=125°C		200	
Maximum Reverse Recovery Time(Note 1)		T_{RR}	500	ns
Typical thermal resistence(Note 2)		$R_{\theta JA}$	26	°C/W
Operating temperature range		T_J	-55 to +150	°C
Storage temperature range		T_{STG}	-55 to +150	°C

Note: 1. I_F=0.5A,I_R=1A,I_{RR}=0.25A

2. Thermal resistance junction to ambient with units mounted on 3. 0×3. 0×0. 11″ thick aluminum plate

FLG.1-MAXIMUM FORWARD SUNRGE CURRENT

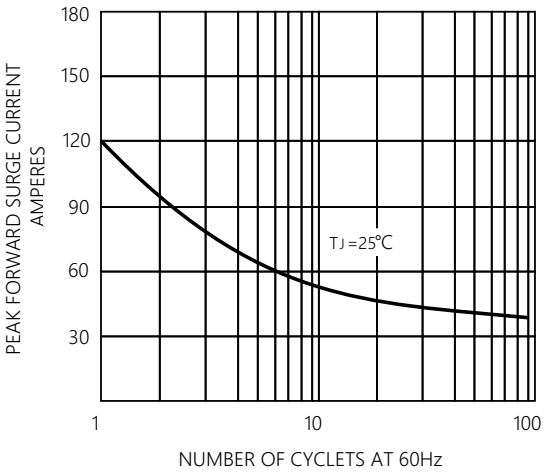


FIG.2-DERATING CURVE
OUTPUT RECTIFIED CURRENT

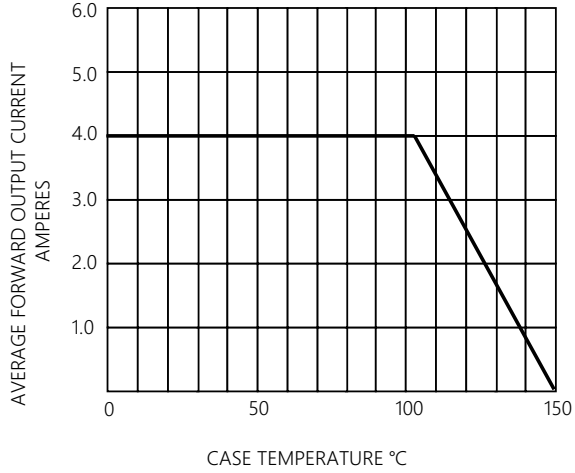


FIG.3-TYPICAL FORWARD CHARACTERISTICS

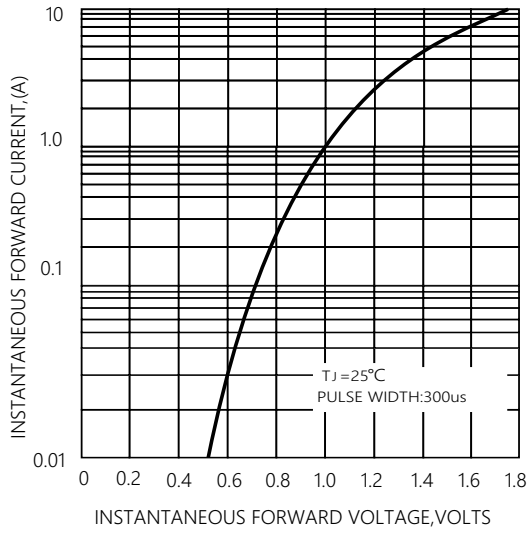
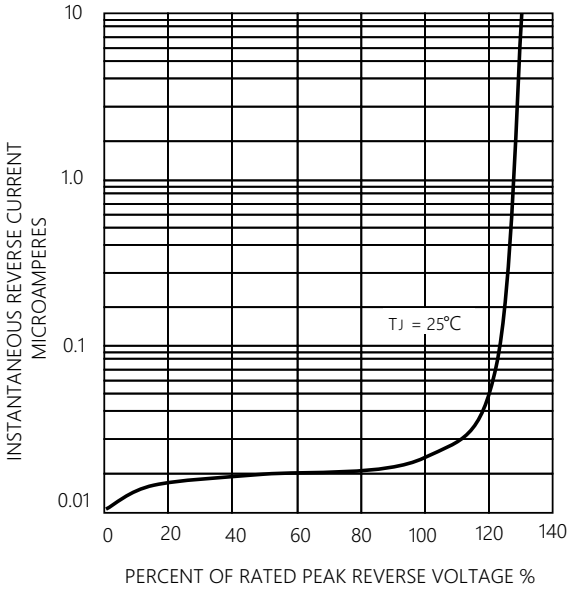


FIG.4 -TYPICAL REVERSE
CHARACTERISTICS



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