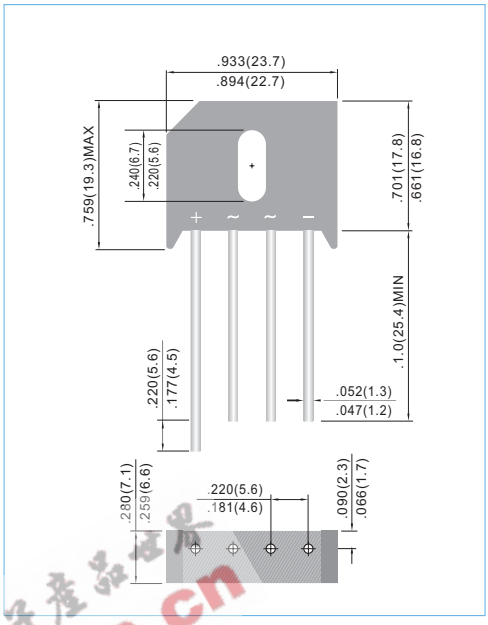
PANJIT SEMI CONDUCTOR

KBU10A~KBU10M

SILICON BRIDGE RECTIFIERS

VOLTAGE 50 to 1000 Volts **CURRENT** 10.0 Amperes

KBU Unit: inch (mm)



FEATURES

- Plastic material used carries Underwriters Laboratory Flammability Calssification 94V-0
- Reliable low cost construction utilizing molded plastic technique.
- Surge overload rating : 300 amperes peak
- Ideal for printed circuit board.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Reliable low cost construnction utilizing molded plastic techniquc
- Terminals: Lead solderable per MIL-STD-750,Method 2026
- Mounting Position: Any
- Weight: 6.9 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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	SYMBOL	KBU10A	KBU10B	KBU10D	KBU10G	KBU10J	KBU10K	KBU10M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Birdge Input 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 T_A=100°C Rectified Output Current at T_A=45°C	I_{AV}	10.0 8.0							A
Peak Forward Surge Current single-wave superimposed on rated load(JEDEC Method)	I_{FSM}	300							A
Maximum Instantaneous Forward Voltage Drop per Element at 8.0A	V_F	1.1							V
Maximum Reverse Leakage at Rated T_A=25°C DC Blocking Voltage per element T_A=100°C	I_R	10.0 300							μA mA
Maximum Temperature Resistance JC (Note1)	$R_{\theta J-C}$	2.5							°C/W
Operating and Storage Temperature Range	T_{STG}	-55 to +150							°C

KBU10A~KBU10M

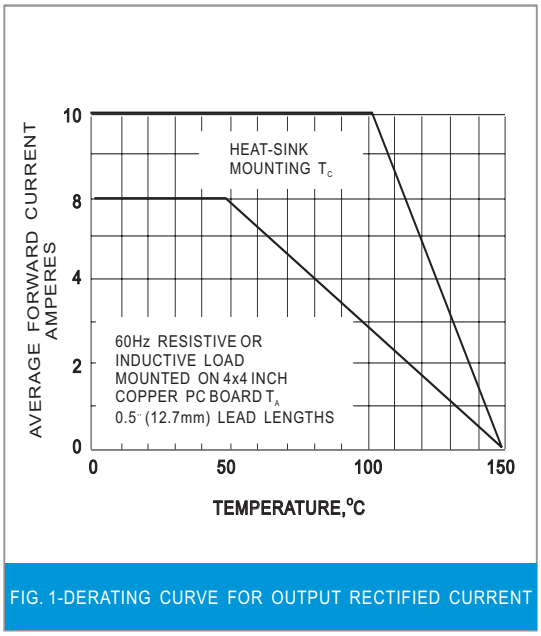


FIG. 1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

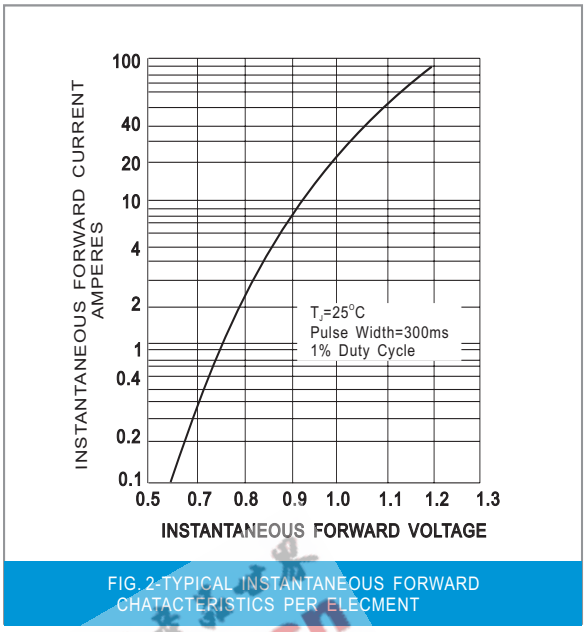


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHATACTERISTICS PER ELECMENT

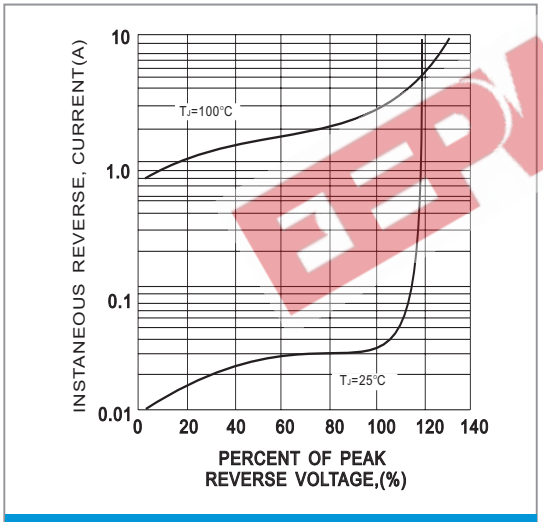


FIG. 3-TYPICAL REVERSE CHARACTERISTISTICS

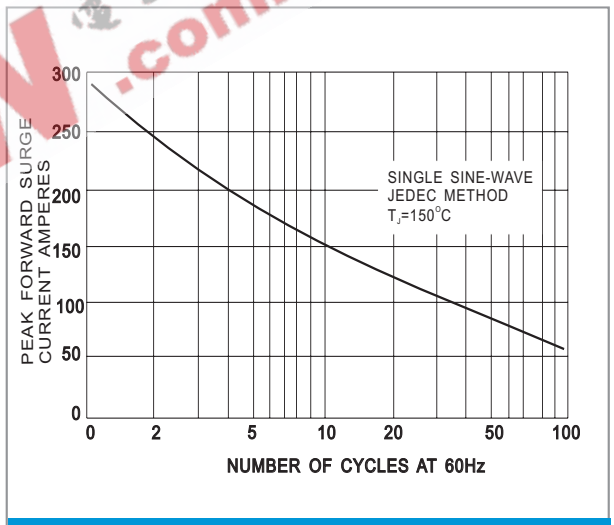


FIG. 4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

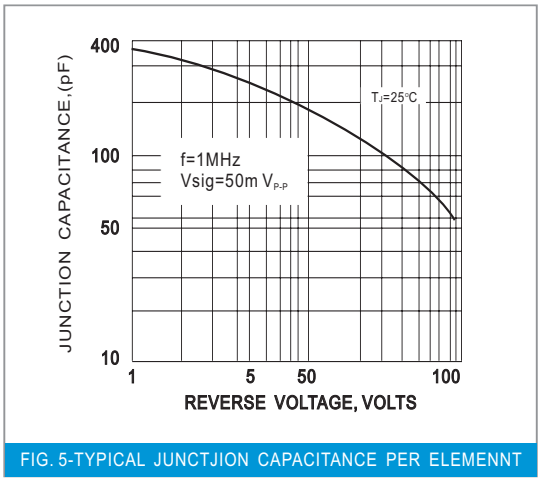


FIG. 5-TYPICAL JUNCTJION CAPACITANCE PER ELEMENNT