

SINGLE PHASE BRIDGE RECTIFIER

DD151	TUDI	DD157	VOLTAGE RANGE	50 to 1000 Volts	
KDIJI	IIIKU	KD137	CURRENT	1.5 Ampere	

FEATURES

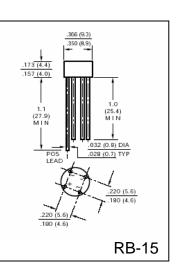
- Plastic package has UL flammability Classification 94V-0
- This series UL recognized
- High Surge current capability
- High temperature soldering guaranteed: 260°C / 10 seconds

MECHANICAL DATA

- Case: Molded plastic body
- Terminal: Plated leads solderale per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.04 ounce, 1.15 gram

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%



	SYMBOLS	RB151	RB152	RB153	RB154	RB155	RB156	RB157	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current, At $T_c = 25^{\circ}C$ (Note 1)	I _(AV)	1.5							Amps
Peak Forward Surge Current		I _{FSM} 50							Amps
8.3mS single half sine wave superimposed on	I _{FSM}								
rated load (JEDEC method)									
Rating for Fusing (t<8.3mS)	I ² t	10							A ² s
Maximum Instantaneous Forward Voltage per element at 1.0A	V _F	1.0							Volts
Maximum DC Reverse Current at Rated $T_A = 25 \ ^{\circ}C$	т	10							μΑ
DC Blocking Voltage per element $T_A = 100 \ ^{O}C$	I _R	500							
Typical Junction Capacitance, per leg (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C _J	15						pF	
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JA}$	40							^o C/W
Operating Junction Temperature Range	TJ	(-55 to +125)						°C	
Storage Temperature Range	T _{STG}	(-55 to +150)						°C	

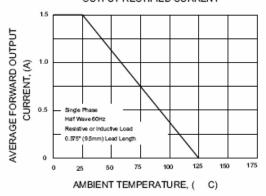
Notes:

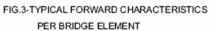
1. Mounted on PCB with 0.22" x 0.22" (5.5mm x 5.5mm) copper pads and 0.375" (9.5mm lead length

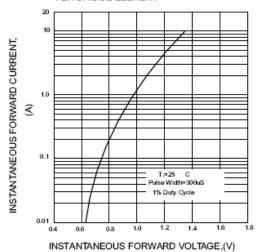


RATINGS AND CHARACTERISTIC CURVES RB151 THRU RB157

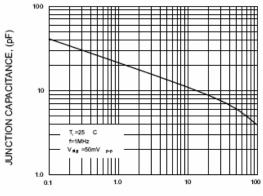
FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT











REVRESE VOLTAGE. (V)

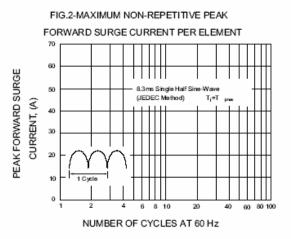
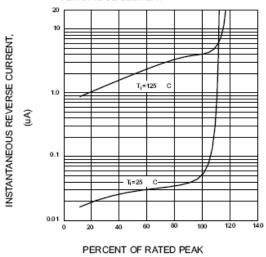


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



REVERSE VOLTAGE, (%)