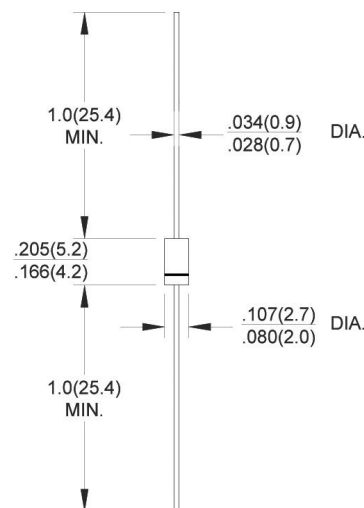


Kingtronics®**UF4001 THRU
UF4007****FAST RECOVERY RECTIFIER****VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere****FEATURES**

Ultrafast recovery time for high capability
 Low forward voltage drop
 Low leakage current
 High forward surge capability
 High temperature soldering guaranteed:
 260°C/10 seconds, 0.375" (9.5mm) lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

Case: Transfer molded plastic
Epoxy: UL94V-0 rate flame retardant
Polarity: Color band denotes cathode end
Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
Mounting position: Any
Weight: 0.012ounce, 0.33 grams

DO-41

Dimensions in inches and (millimeters)

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	UF 4001	UF 4002	UF 4003	UF 4004	UF 4005	UF 4006	UF 4007	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA=75°C	I(AV)	1.0							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A	VF	1.1			1.7			Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage	TA = 25°C	5.0							uA
	TA = 125°C	50							
Maximum Reverse Recovery Time(NOTE1)	T _{RR}	50			75			nS	
Typical Junction Capacitance (NOTE 2)	C _J	20			15			pF	
Typical Thermal Resistance (NOTE 3)	R _{θJA}	60							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

- Reverse Recovery Test Conditions: I_f=0.5A, I_r=1.0A, I_{rr}=0.25A.
- Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- Thermal Resistance from Junction to Ambient at. 375"(9.5mm)lead length, P.C. board mounted.

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UF4001 THRU UF4007

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

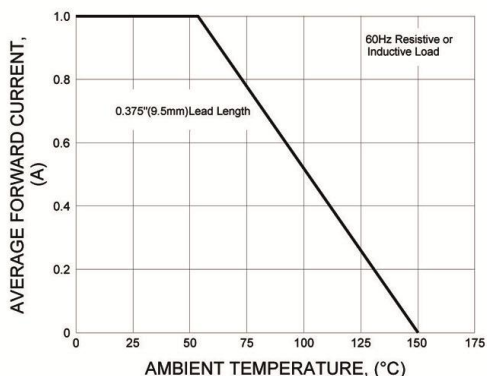


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

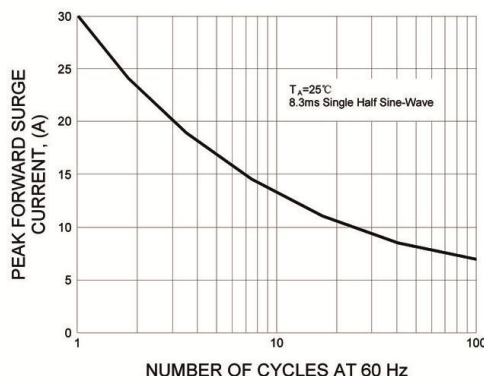


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

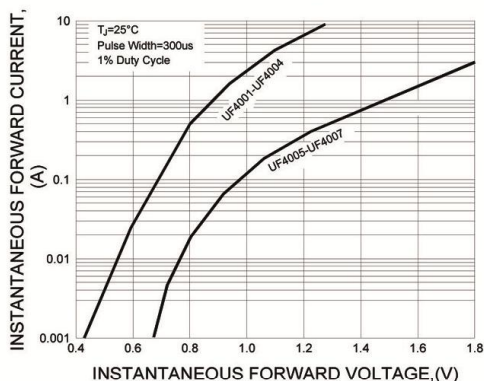


FIG.4-TYPICAL REVERSE CHARACTERISTICS

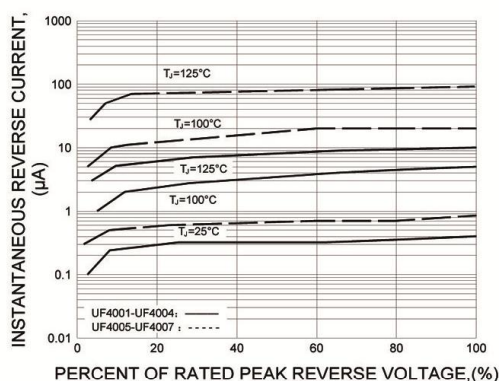
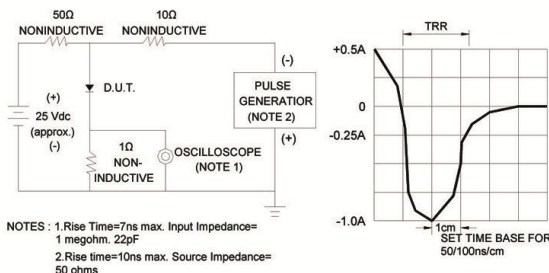


FIG.6-TEST CIRCUIT DIAGRAM AND FORWARD SURGE CURRENT



Note: Specifications are subject to change without notice.

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