

Kingtronics®

2W005M thru 2W10M
SINGLE-PHASE BRIDGE RECTIFIER

FEATURE

Rating to 1000V PRV
Ideal for printed circuit board
Low forward voltage drop, high current capability.
Reliable low cost construction utilizing molded epoxy technique results in inexpensive product
The plastic material has UL flammability classification 94V-0

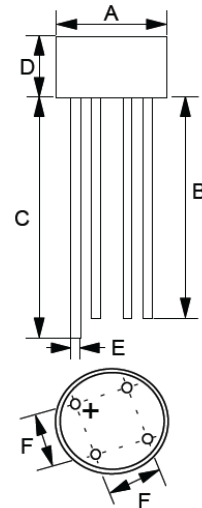
REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 2.0

Mechanical Data

Case : Molded plastic
Polarity: As marked on Body
Weight : 0.05 ounces, 1.42 grams
Mounting position : Any

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%.



Case Style **WOM**

WOM		
DIM.	MIN.	MAX.
A	8.90	9.30
B	25.4	-
C	27.9	-
D	5.10	5.60
E	0.70	0.80
F	4.60	5.60

All Dimensions in millimeter

CHARACTERISTICS	Symbols	2W005M	2W01M	2W02M	2W04M	2W06M	2W08M	2W10M	UNITS
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 $T_A = 25^\circ C$	$I_{(AV)}$	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							Amps
Maximum forward Voltage at 2.0A DC	V_F	1.1							V
Maximum DC reverse current @ $T_J=25^\circ C$	I_R	5.0							uA
at rated DC blocking voltage @ $T_J=125^\circ C$		500							
It Rating for fusing ($t < 8.3ms$)	$I^2 t$	15							$A^2 S$
Typical junction capacitance per element (Note 1)	C_J	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							$^\circ C/W$
Operating temperature range	T_J	(-55 to +150)							$^\circ C$
Storage Temperature Range	T_{STG}	(-55 to +150)							$^\circ C$

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Thermal Resistance Junction to Ambient

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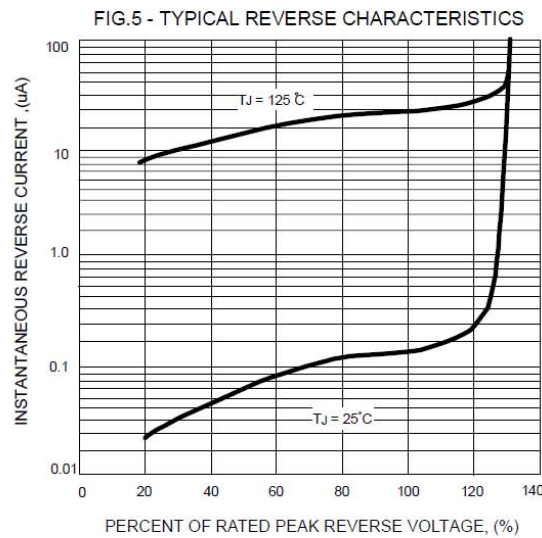
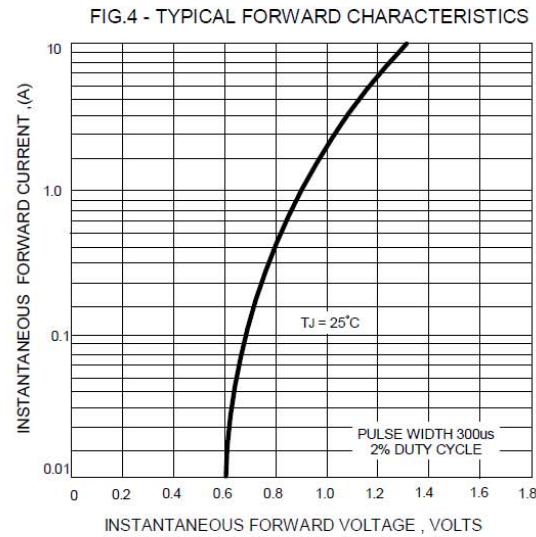
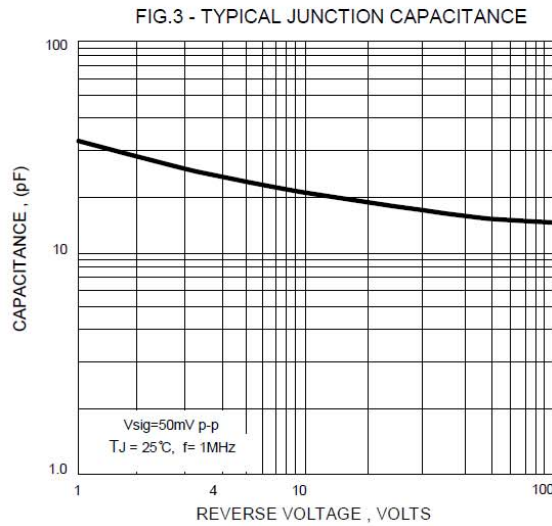
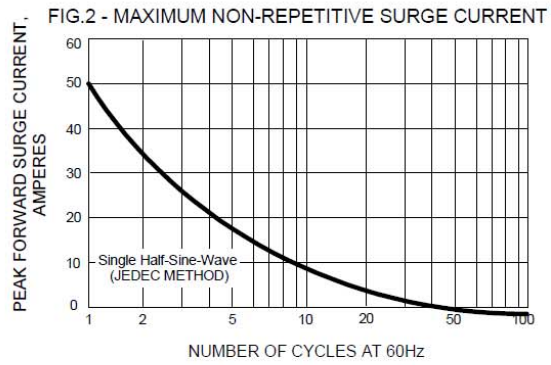
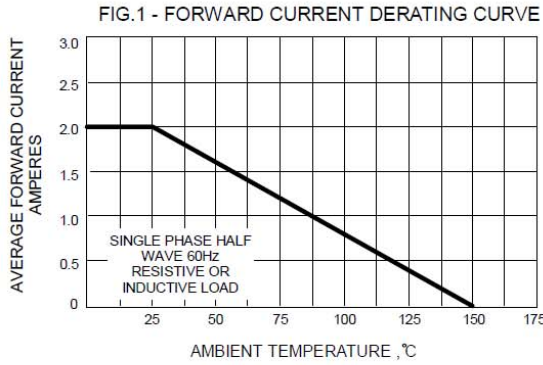
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RATINGS AND CHARACTERISTIC CURVES

2W005M thru 2W10M



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