Kingtronics[®] International Company

1A1 THRU 1A7

<u>. 107 (2. 7)</u> . 08 (2. 0)

> <u>. 025 (. 64)</u> . 021 (. 53)

DIA



Features

- Low forward voltage drop
- High current capability
- ♦ High reliability
- ◆High surge current capability

Mechanical Data

- ◆Cases: Molded plastic
- ◆Epoxy: UL 94V-0 rate flame retardant
- ◆ Lead: Axial leads, solderable per MIL-STD-202,

Method 208 guaranteed

- Polarity: Color band denotes cathode end
- High temperature soldering guaranteed;

250°C /10 seconds/.375", (9.5mm)lead, Lengths at 5 lbs., (2.3kg) tension

Weight:0.20 gram

Dimensions in inches and (millimeters)

1.0(25.4) MIN

> <u>. 130 (3. 3)</u> . 118 (3. 0)

1.0(25.4) MIN

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase,half wave,60Hz,resistiver or inductive load. For capacitive load, derate current by 20%

Type Number		1A1	1A2	1A3	1A4	1A5	1A6	1A7	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified	l=s	1.0							A
Current .375"(9.5mm) Lead length @ Ta=25°C	IF(AV)								
Peak Forward Surge Current 8.3ms single									
half sine-wave superimposed on rated load	Isou	25							А
(JEDEC method)	IFSM								
Maximum Instantaneous Forward Voltage @1.0A	VF	1.0							V
Maximum DC Reverse Current @ Ta=25°C	1-	5.0							μΑ
at rated DC blocking voltage @ TA=100°C	IR	50.0							
Typical Thermal Resistance (Note)	Reja	50						°C /W	
Operating Temperature Range	TJ	-65 to +125						°C	
Storage Temperature Range	Тятс	-65 to +150							°C

NOTE: : 1. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length.

1A1 THRU 1A7

RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER

BRIDGE ELELMENT



NUMBER OF CYCLES AT 60Hz



AMBIENT TEMPERATURE.(℃)



FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

PER BRIDGE ELEMENT

FIG. 4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



PERCENT OF RATED PEAK REVERSE VOLTAGE.(%)

Note: Specifications are subject to change without notice.

FIG. 2-MAXIMUM FORWARD CURRENT DERATING CURVE