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## Fast Recovery Rectifier

2.0 Amps

200-600 Volts

A114B
A114C
A114D
A114E
A114M

THE A114 IS A 2.0 AMPERE, AXIAL-LEADED, FAST RECOVERY RECTIFIER. DUAL HEATSINK CONSTRUCTION PROVIDES RIGID MECHANICAL SUPPORT FOR THE PELLET AND EXCELLENT THERMAL CHARACTERISTICS. PASSIVATION AND PROTECTION OF THE PN JUNCTION OF THE SILICON PELLET ARE PROVIDED BY SOLID GLASS; NO ORGANIC MATERIALS ARE PRESENT WITHIN THE HERMETICALLY-SEALED PACKAGE.

### absolute maximum ratings: (25°C unless otherwise specified)

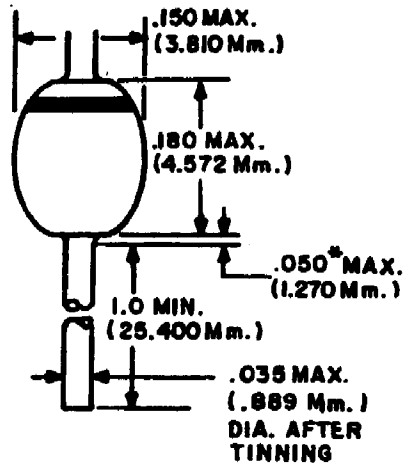
	A114B	A114C	A114D	A114E	A114M	
Reverse Voltage (-65°C to +150°C, T <sub>J</sub> )						
Working Peak, V <sub>RWM</sub>	200	300	400	500	600	Volts
Repetitive Peak, V <sub>RRM</sub>	200	300	400	500	600	Volts
DC, V <sub>R</sub>	200	300	400	500	600	Volts
Average Forward Current, I <sub>o</sub>						
75°C ambient	←----- 1.0 -----→					Amperes
25°C " "	←----- 2.0 -----→					Amperes
Peak Surge Forward Current, I <sub>FSM</sub>						
Non-rep., .0083 sec., half sine wave, Full load JEDEC method	←----- 40 -----→					Amperes
Non-rep., .001 sec., half sine wave, Full load @ +150°C, T <sub>J</sub>	←----- 85 -----→					Amperes
I <sup>2</sup> t (for fusing), RMS						
.001 to .01 seconds	←----- 3.5 -----→					Amp <sup>2</sup> secs.
Junction Temperature Range						
Operating, T <sub>J</sub>	←----- -65°C to +150°C -----→					
Storage, T <sub>STG</sub>	←----- -65°C to +175°C -----→					

Mounting: Any position. Lead temperature 290°C max. to 1/8" from body for 5 seconds max. during mounting.

### electrical characteristics: (25°C unless otherwise specified)

Maximum Forward Voltage Drop, V <sub>FM</sub> I <sub>FM</sub> = 1.0A, T <sub>A</sub> = +25°C	←----- 1.1 -----→					Volts
Maximum Reverse Current, I <sub>RM</sub> @ rated V <sub>RRM</sub> T <sub>J</sub> = +25°C	5	5	5	5	5	Microamps.
T <sub>J</sub> = +150°C	300	300	300	200	200	Microamps.
Typical I <sub>RM</sub> @ 25°C	1	1	1	1	1	Microamps.
Typical Reverse Recovery Time, t <sub>rr</sub>	←----- 140 -----→					Nanosecs.
Maximum Reverse Recovery Time, t <sub>rr</sub>	←----- 200 -----→					Nanosecs.

Quality Semi-Conductors



**ALL DIMENSIONS ARE IN INCHES  
 AND (METRIC)**  
**\*WELD AND SOLDER FLASH NOT  
 CONTROLLED IN THIS AREA**

**OUTLINE DRAWING**