

Fast Recovery Rectifier

2.0 Amps

50-100 Volts

A114A

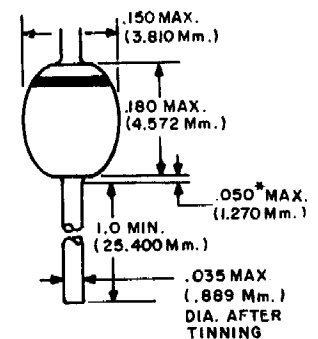
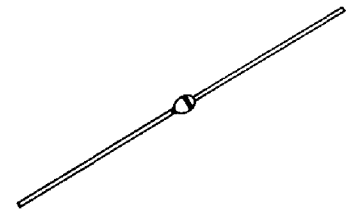
A114F

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 PELLETS ARE PROVIDED BY SOLID GLASS; NO ORGANIC MATERIALS ARE PRESENT WITHIN THE HERMETICALLY-SEALED PACKAGE.

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

	A114F	A114A	
Reverse Voltage (-65°C to +150°C, T _J)			
Working Peak, V _{RWM}	50	100	Volts
Repetitive Peak, V _{RRM}	50	100	Volts
DC, V _R	50	100	Volts
Average Forward Current, I _O			
75°C ambient (see Rating Curves)	← 1.0 →		Amperes
25°C	← 2.0 →		Amperes
Peak Surge Forward Current, I _{FSM}			
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 _J	← 85 →		Amperes
I ² t (for fusing), RMS			
.001 to .01 seconds	← 3.5 →		Amp ² secs.
Junction Temperature Range			
Operating, T _J	-65°C to +150°C		
Storage, T _{STG}	-65°C to +175°C		

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



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

OUTLINE DRAWING

electrical characteristics: (25°C unless otherwise specified)

Maximum Forward Voltage Drop, V _{FM} I _{FM} = 1.0A, T _J = +25°C	← 1.1 →		Volts
Maximum Reverse Current, I _{RM} @ rated V _{RM} T _J = +25°C	5	5	Microamps.
T _J = +150°C	500	500	Microamps.
Typical Reverse Recovery Time, t _{rr}	← 140 →		Nanosecs.
Maximum Reverse Recovery Time, t _{rr}	← 200 →		Nanosecs.

Recovery circuit per MIL-S-19500/286C.