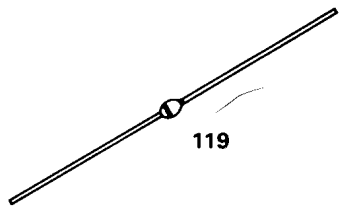
Fast Recovery Rectifier

A114F–A114M

2.0 Amps **200-600 Volts**

The General Electric 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)

	A114F	A114A	A114B	A114C	A114D	A114E	A114M	
Reverse Voltage (−65°C to +150°C, T_J)								
Working Peak, V_{RWM}	50	100	200	300	400	500	600	Volts
Repetitive Peak, V_{RRM}	50	100	200	300	400	500	600	Volts
DC, V_R	50	100	200	300	400	500	600	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^2t (for fusing), RMS .001 to .01 seconds	←			3.5			→	$Amp^2secs.$
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.

electrical characteristics: (25°C unless otherwise specified)

Maximum Forward Voltage Drop, V_{FM}								
I_{FM} = 1.0A, T_A = +25°C	←			1.1			→	Volts
Maximum Reverse Current, I_{RM} @ rated V_{RM}								
T_J = +25°C	5	5	5	5	5	5	5	Microamps.
T_J = +150°C	500	500	300	300	300	200	200	Microamps.
Typical I_{RM} @ 25°C			1	1	1	1	1	Microamps.
Typical Reverse Recovery Time, t_{rr}	←			140			→	Nanosecs.
Maximum Reverse Recovery Time, t_{rr}	←			200			→	Nanosecs.

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