DIGITRON SEMICONDUCTORS

A14A, A14F, A14U STANDARD RECOVERY RECTIFIERS

MAXIMUM RATINGS (25°C unless otherwise noted)

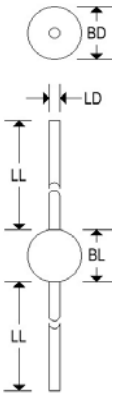
Parameter	Symbol	A14U	A14F	A14A	Unit
Repetitive peak reverse voltage	V_{RRM}	25	50	100	V
DC voltage	V_R	25	50	100	V
Average forward current 100°C ambient 25°C	I_F		1.0 2.5		A
Non-repetitive peak surge current (0.0083 sec., half sine wave) Full load No load	I_{FSM}	 30 45	 50 65	 50 65	A
Non-repetitive peak surge current (0.001 sec., half sine wave) Full load No load	I_{FSM}	 70 80	 90 100	 90 100	A
RMS for fusing (0.001 to 0.01 sec)	I^2t	2.0	4.0	4.0	A^2s
Junction operating and storage temperature range	T_J, T_{stg}		-65 to +175		°C

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

Parameter	Symbol	A14U	A14F	A14A	Unit
Maximum forward voltage drop (2.5A, T_J = 25°C)	V_F		1.25		V
Maximum reverse current at rated VR (T_J = 25°C) (T_J = 175°C)	I_R	 10 500	 5.0 300	 5.0 300	µA
Typical reverse current (T_J = 25°C) (T_J = 100°C)			 0.3 20		µA
Typical reverse recovery time			3		µsec
Maximum reverse recovery time			6		µsec

MECHANICAL CHARACTERISTICS

Case	SOD-57, sintered glass
Marking	Body painted, alpha numeric
Polarity	Cathode band



	SOD-57			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.142	-	3.600
BL	-	0.157	-	4.000
LD	-	0.032	-	0.820
LL	1.024	-	26.000	-

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).
Available as “HR” (high reliability) screened per MIL-PRF-19500, JANTX level. Add “HR” suffix to base part number.

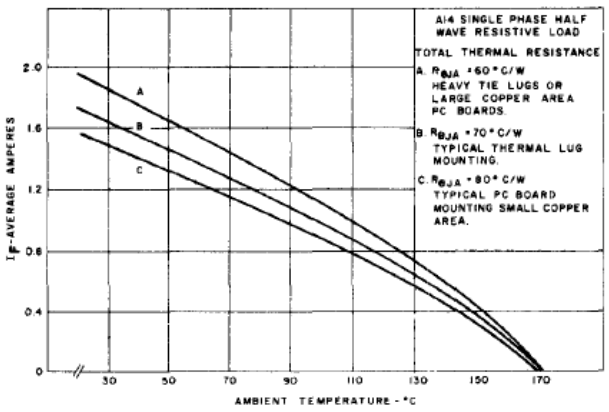
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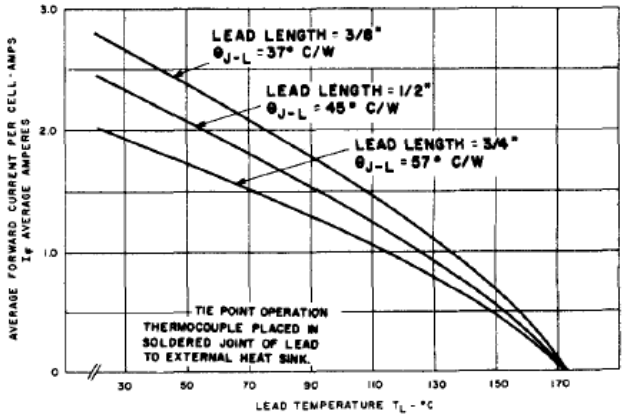
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A14A, A14F, A14U — STANDARD RECOVERY RECTIFIERS

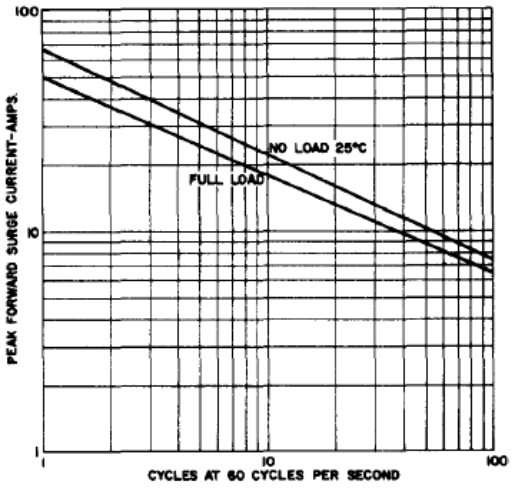


AMBIENT OPERATION
(SEE TYPICAL MOUNTING BELOW)

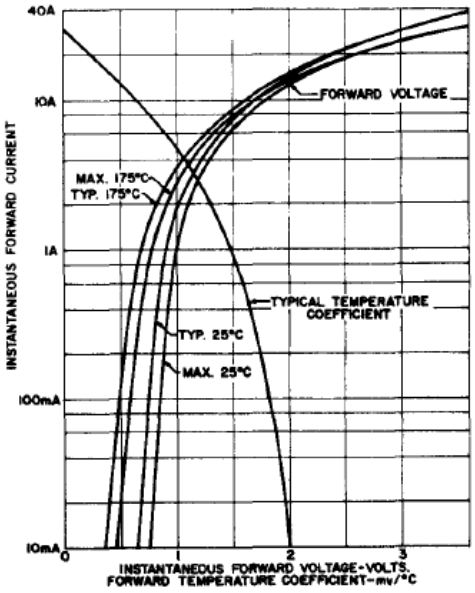


TIE POINT OPERATION

TYPICAL CHARACTERISTICS



MAXIMUM NON-REPETITIVE MULTICYCLE FORWARD SURGE CURRENT



FORWARD CHARACTERISTICS

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