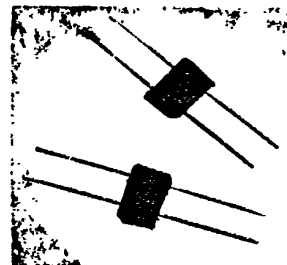


SDA 276

bridge rectifier assembly

- * PIV 50 TO 1000 VOLTS/AVERAGE OUTPUT CURRENT 1.5 A
- * PIV 1500 TO 3000 VOLTS/AVE. OUTPUT CURRENT 360mA
- * OPERATING AND STORAGE TEMPERATURE -55°C TO $+150^{\circ}\text{C}$
- * ALSO AVAILABLE WITH "FAST" RECOVERY CHARACTERISTICS UP TO 1000 VOLTS
- * SUBMINIATURE DESIGN FOR PACKAGING VERSATILITY



SSDI introduces a new and complete series of Single Phase Bridge Rectifier Assemblies. These units are designed in special packages to provide maximum thermal conductivity and simple installation.

Consult your factory representative for engineering assistance.

SEMTECH EQUIVALENT: SBR05 through SBR10

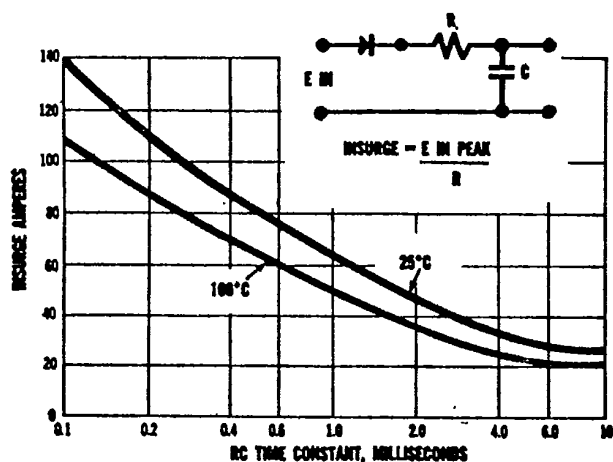
UNITRODE EQUIVALENT: 673-1 through 673-12

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

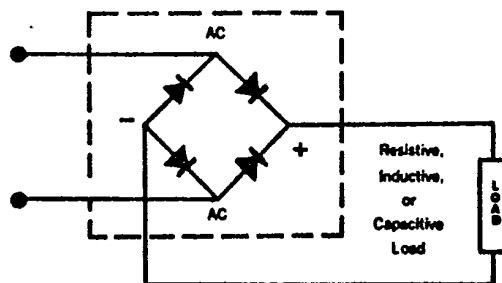
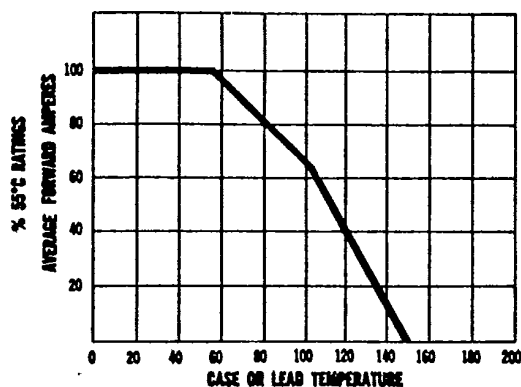
Type	PIV per leg	Sine Wave RMS input Voltage Max.	Average DC Output Amps TC = (case temp.)		Peak 1 Cycle Forward Surge	VF Max per leg @ ADC 1.5A	Reverse Current (I_R Max. per leg. @ PIV)	
			55°C	100°C			25°C	100°C
	VOLTS	VOLTS	AMPS	AMPS	AMPS	VOLTS	UA	UA
SDA276A	50	35	1.5	1.0	10	1.2	2	40
SDA276B	100	70	1.5	1.0	10	1.2	2	40
SDA276C	200	140	1.5	1.0	10	1.2	2	40
SDA276D	400	280	1.5	1.0	10	1.2	2	40
SDA276E	600	420	1.5	1.0	10	1.2	2	40
SDA276F	800	560	1.5	1.0	10	1.2	2	40
SDA276G	1000	700	1.5	1.0	10	1.2	2	40
SDA276H	1500	1050	.36	.24	2.5	3.5	2	40
SDA276J	2000	1400	.36	.24	2.5	3.5	2	40
SDA276K	2500	1750	.36	.24	2.5	3.5	2	40
SDA276L	3000	2100	.36	.24	2.5	3.5	2	40

SSDI SOLID STATE DEVICES, INC.

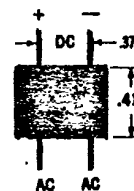
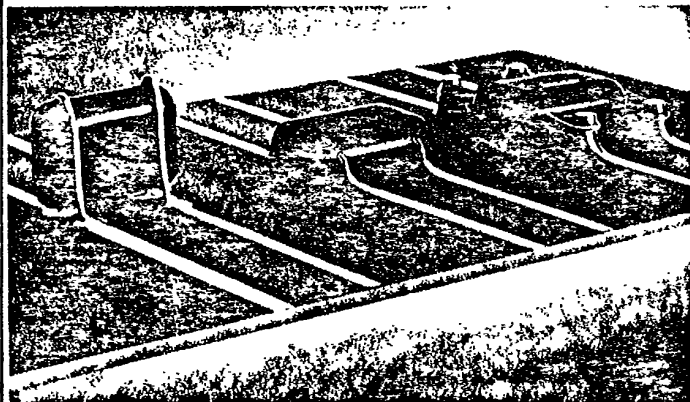
MAXIMUM RATINGS FOR CAPACITY LOADS



FOR FAST RECOVERY BRIDGES + 2

ALL BRIDGES
TEMPERATURE DERATING CURVE

Typical Bridge Circuit

Lead Spacing Measured
Center to CenterTolerance $\pm .030$

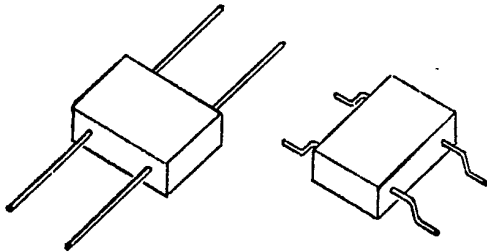
SDA356

FAST & ULTRA FAST 1 AMP RECTIFIER ASSEMBLY

SSDI

14830 Valley View Avenue
La Mirada California 90638
(213) 921-9660
TWX 910-583-4807
FAX 213-921-2396

CASE STYLE



FEATURES

- REVERSE RECOVERY TIME 30-70 N SEC MAX
- AVERAGE OUTPUT CURRENT 1.0 AMPS
- PIV 100 TO 1200 VOLTS
- HERMETICALLY SEALED INTERNAL DISCRETES
- ALL WELDED INTERNAL INTERCONNECTS
- THERMALLY CONDUCTIVE EPOXY ENCAPSULATED
- SURFACE OR RADIAL MOUNTING*

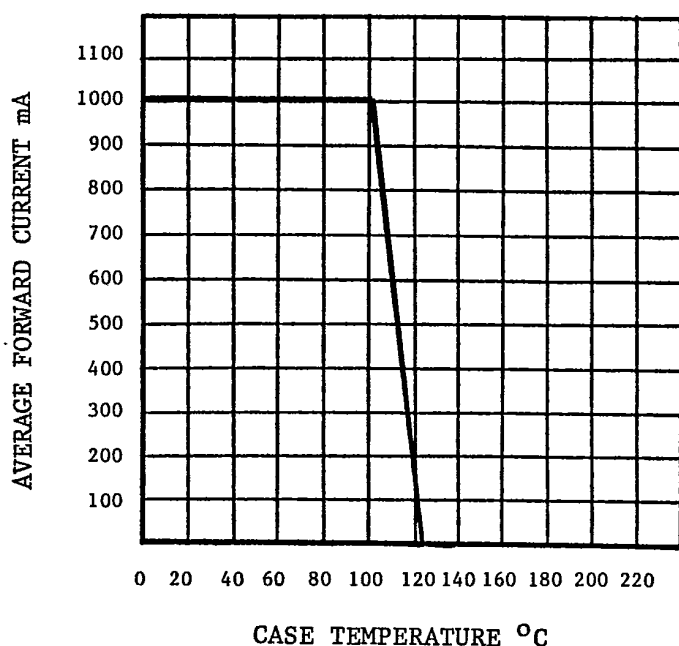
SSDI introduces a new and complete line of Single Phase, Rectifier Bridge Assemblies designed for Fast and Ultra Fast reverse recovery time. These bridges are encapsulated with thermal conductive epoxy to provide maximum thermal conductivity. The series features SSDI's exclusive glass passivated rectifier cell and all welded internal interconnects for high reliability and mechanical strength.

*For surface mounting add -2 to part number.

Type		PIV per leg	Sine Wave RMS input Voltage Max.	Average DC Output Amps TC = (case temp.)		Reverse * Recovery Time T _{rr}	Peak 1 Cycle Forward Surge	Peak Recurrent Forward	VF Max per leg @ ADC 1.0 A	Reverse Current (I _R Max. per leg. @ PIV)	
				50°C	100°C	Max				25°C	100°C
		VOLTS	VOLTS	AMPS	AMPS	ns	AMPS	AMPS	VOLTS	UA	UA
SDA356B	F	100	70	1.0	1.0	100	25	6	1.1	5	100
	UF	100	70	1.0	1.0	30	25	6	1.0	5	100
SDA356D	F	200	140	1.0	1.0	100	25	6	1.1	5	100
	UF	200	140	1.0	1.0	30	25	6	1.0	5	100
SDA356G	F	400	280	1.0	1.0	100	25	6	1.1	5	100
	UF	400	280	1.0	1.0	60	25	6	1.5	5	100
SDA356J	F	600	420	1.0	1.0	100	25	6	1.1	5	100
	UF	600	420	1.0	1.0	60	25	6	1.5	5	100
SDA356K	F	800	560	1.0	1.0	100	25	6	1.1	5	100
	UF	800	560	1.0	1.0	60	25	6	1.5	5	100
SDA356M	F	1000	700	1.0	1.0	100	25	6	1.3	5	100
	UF	1000	700	1.0	1.0	70	25	6	1.9	5	100
SDA356N	F	1200	840	1.0	1.0	100	25	6	1.3	5	100
	UF	1200	840	1.0	1.0	70	25	6	1.9	5	100

NOTE: All specifications subject to change without notice.

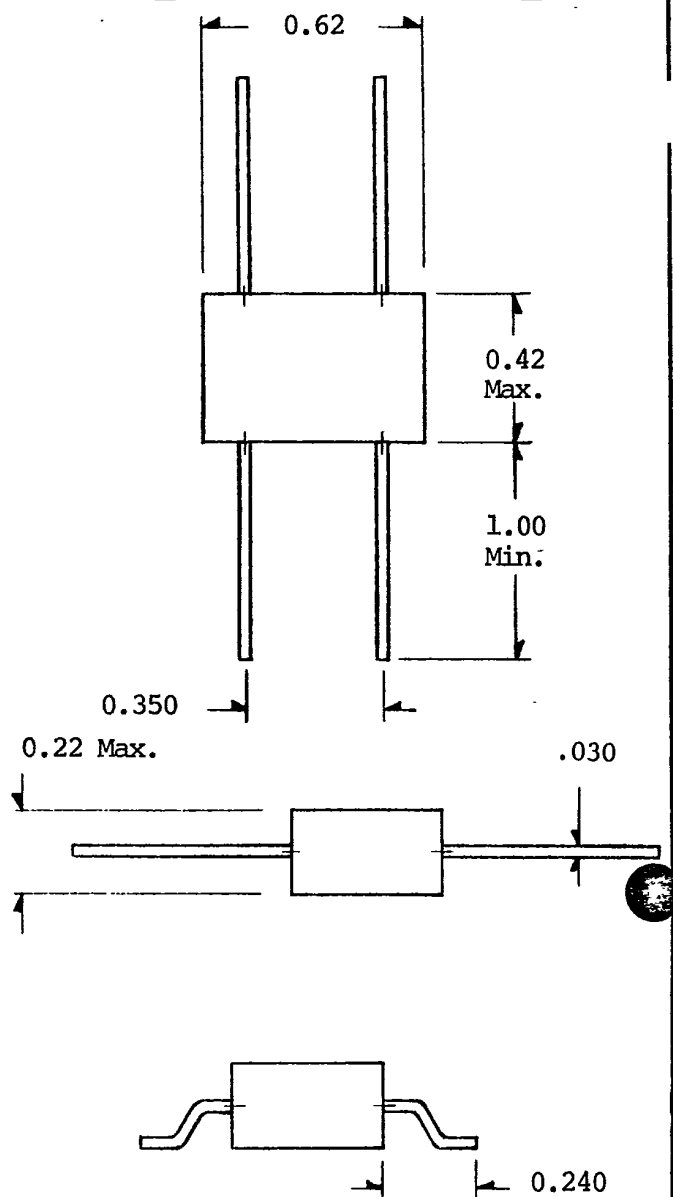
TEMPERATURE DERATING CURVE



CASE TEMPERATURE °C

DESIGN NOTESInsulation Resistance R_{DC} 10 KM Ω Minimum

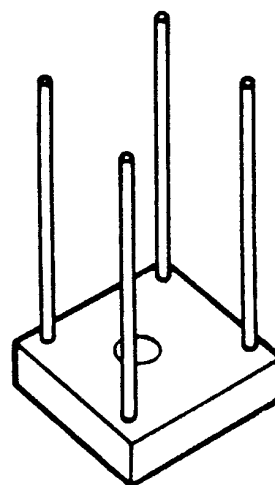
Operating Temperature Top -55 to +125 °C

Thermal Resistance Junction to Lead
(each leg, L= 3/8") $R_{\theta JL}$ 50°C/WReverse Recovery Time
IF= 500 mA, IR= 1.0 A, Irr= 250 mATolerance XX.03
XXX.020

SSDI Bridge Rectifier Assembly

SINGLE PHASE 10 AMPS SDA 165 SERIES

- Average output 10 Amps
- PIV 50 to 1000 Volts
- Small Size
- Maximum Thermal Resistance
2.5° C/Watt
- Hermetically Sealed Rectifier Cells
- Easy P.C. Mounting



SSDI introduces a new and complete line of single phase rectifier bridge assemblies. They are designed in a special case to provide maximum thermal conductivity and simple installation.

Consult your factory representative for engineering assistance.

Type	PIV per leg	Sine Wave RMS input Voltage Max	Average DC Output Amps TC = (case temp.)			Average DC Output Amps TA = Ambient Temp. (No heat Sink)			Peak 1 Cycle Forward surge	Peak Recurrent Forward	VF Max. per leg @ 3 ADC	Reverse Current (I _R Max. per leg. @ PIV) μ a	
			55°C	100°C	125°C	25°C	55°C	100°C				25°C	100°C
SDA165A	50	35	10	7.5	5	4	3	2	150	75	1	5	100
SDA165B	100	70	10	7.5	5	4	3	2	150	75	1	5	100
SDA165C	200	140	10	7.5	5	4	3	2	150	75	1	5	100
SDA165D	400	280	10	7.5	5	4	3	2	150	75	1	5	100
SDA165E	600	420	10	7.5	5	4	3	2	150	75	1	5	100
SDA165F	800	560	10	7.5	5	4	3	2	150	75	1	5	100
SDA165G	1000	700	10	7.5	5	4	3	2	150	75	1	5	100

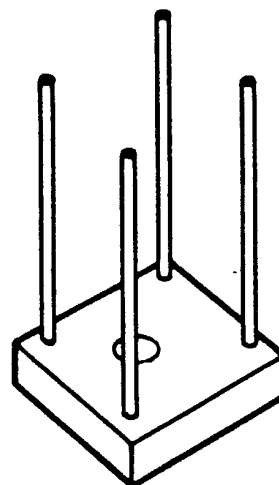
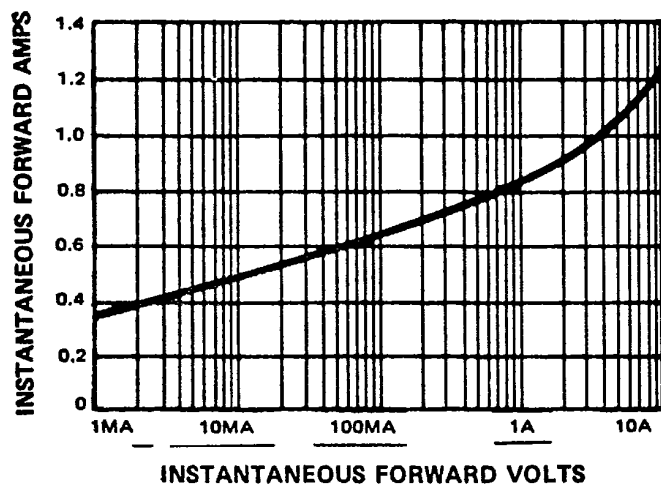
SSDI

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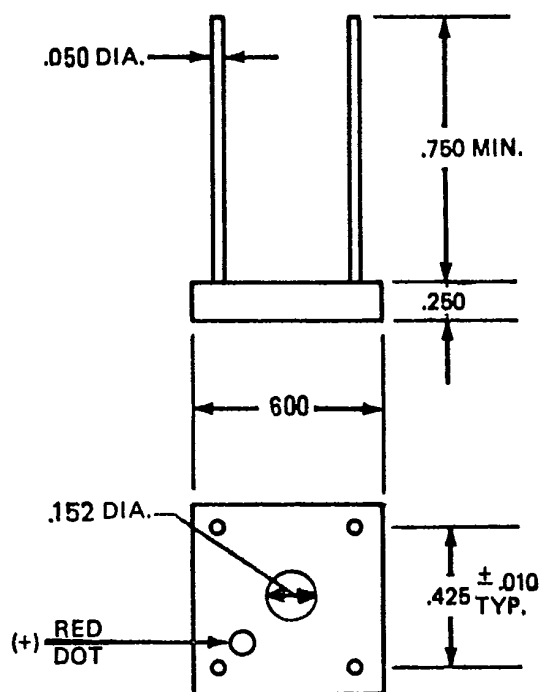
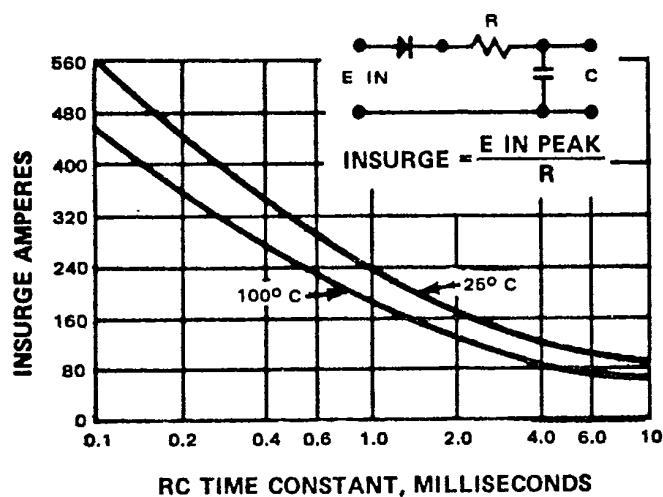


application notes

TYPICAL DYNAMIC FORWARD CHARACTERISTICS



MAXIMUM RATINGS FOR CAPACITY LOADS

TOLERANCE XX $\pm$.03XXX $\pm$.020

FRACTIONAL = NOMINAL DIMENSION



SOLID STATE DEVICES, INC.